

20000711.qrp v01_n879.qrl.20000711

Date: Tue, 11 Jul 2000 19:03:09 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1879

QRP-L Digest 1879

Topics covered in this issue include:

- 1) [74800] RE: 2N2/40 Lives!
by Nick Kennedy <nkennedy@tcainternet.com>
- 2) [74801] Re: Tentec 1380 freq adjustment?
by Wa3ptg@aol.com
- 3) [74802] Re: WRTC Contest Atnennas
by Phil Wheeler <w7ox@earthlink.net>
- 4) [74803] Re: AB0GO backpacking ham radio a bust
by Phil Wheeler <w7ox@earthlink.net>
- 5) [74804] Re: Manhattan Construction - a dissenting opinion
by "Paul Harden, NA5N" <na5n@rt66.com>
- 6) [74805] Some WINDOM INFO
by ARDUJENSKI@aol.com
- 7) [74806] Re: Manhattan Construction - a dissenting opinion
by "John J. McDonough" <wb8rcr@arrl.net>
- 8) [74807] Re: FLARE!!!!
by "Rod, N0RC" <n0rc@qsl.net>
- 9) [74808] Ft. Tuthill 2000, July 28 - 30
by jaywa5whn@juno.com
- 10) [74809] Re: FLARE!!!!
by Ray Colbert <af852@rgfn.epcc.edu>
- 11) [74810] Re: A-1 Operator
by AdamN7YA@aol.com
- 12) [74811] Drake SW-4A Schematic?
by Niels Jensen Kristjansson <nkristja@cadvision.com>
- 13) [74812] Re: A-1 Operator
by Phil Wheeler <w7ox@earthlink.net>
- 14) [74813] Re: Ft. Tuthill 2000, July 28 - 30
by Phil Wheeler <w7ox@earthlink.net>
- 15) [74814] RE: Backpacking a bust
by N10DL@aol.com
- 16) [74815] SG 2020 owners.....
by "Charles Mabbott" <crmabbott@mediaone.net>
- 17) [74816] Re: Subject line topics-Please Read
by "Manager QRP-L" <manager@astro.cc.lehigh.edu>
- 18) [74817] Knew Bee Heah, High Y'all
by hamjoel@juno.com
- 19) [74818] Re: AB0GO backpacking ham radio a bust

by Steve Yates <aa5tb@yahoo.com>
20) [74819] Re: 2N2/40 Lives!
by "Maddog 'n' Miracles" <maddog@io.com>
21) [74820] Summer FOX Hunt :-)
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
22) [74821] W5YA/7 UTAH
by K1JD@aol.com
23) [74822] Re: AB0GO backpacking ham radio a bust
by Phil Wheeler <w7ox@earthlink.net>
24) [74823] FOX: Big Dawgs are on the hunt
by "Marshall Emm" <mgemm@mtechnologies.com>
25) [74824] Manhattan Style Building
by Chuck Adams <k7qo@primenet.com>
26) [74825] Re: FLARE!!!!
by "K7FD-N7SG" <cqdx@teleport.com>
27) [74826] Re: FOX: Big Dawgs are on the hunt
by Pete Burbank <plburbank@kih.net>
28) [74827] RG 174 use
by Alen Mitrovic <alen.mitrovic@hermes.si>
29) [74828] Re: RG 174 use (also RG-6)
by Bob Patten <n4bp@bc.seflin.org>
30) [74829] OP: 10 Meter Operation
by Bill Lazure <n2tpa@juno.com>
31) [74830] Re: SM protoboards
by "Leon Heller" <leon_heller@hotmail.com>
32) [74831] Re: Knew Bee Heah, High Y'all
by "Rod, N0RC" <n0rc@qsl.net>
33) [74832] Re: OP: 10 Meter Operation
by Tom and Roxy <zikot@erie.net>
34) [74833] Re: FLARE!!!!
by "Karl F. Larsen" <k5di@zianet.com>
35) [74834] Windom Antenna's
by "Karl F. Larsen" <k5di@zianet.com>
36) [74835] Re: FLARE!!!!
by "Karl F. Larsen" <k5di@zianet.com>
37) [74836] Homebrew Books
by Mercxx@aol.com
38) [74837] Making small patches of PC Boards
by "Cla KA0GKC" <ka0gkc@arrl.net>
39) [74838] Lowering power level on the HR-2600
by Greg Weinfurtner <weinfurt@oak.cats.ohiou.edu>
40) [74839] remove
by mike <mikemga@sover.net>
41) [74840] FLARE is REAL
by "Karl F. Larsen" <k5di@zianet.com>
42) [74841] K2's at Ft Tuthill
by Bob Hightower <nk7m@extremezone.com>
43) [74842] RE: CLUB: LOBSTERCON!!

by "AI2Q Alex" <ai2q@ispchannel.com>
44) [74843] ANTS: Ground Affect?
by "Steve/n0tu" <n0tu@webaccess.net>
45) [74844] Why elevate the antenna?
by ARDUJENSKI@aol.com
46) [74845] Re: Ground Affect?
by "w8diz" <w8diz@cinci.rr.com>
47) [74846] Re: OP: 10 Meter Operation
by Brian Kassel <bkassel@dancris.com>
48) [74847] Bicycle Mobile with K2
by Jim Cluett <w1pid@yahoo.com>
49) [74848] Re: ANTS: Ground Affect?
by Bill Coleman AA4LR <aa4lr@radio.org>
50) [74849] KD1JV LCD Keyer Mini-Review - Long
by Brian Kassel <bkassel@dancris.com>
51) [74850] Explorer II
by "Ron Giuntini" <rong@slip.net>
52) [74851] Re: FLARE!!!!
by "Rod, N0RC" <n0rc@qsl.net>
53) [74852] SOP Receiver News 7/11
by "George Heron N2APB" <n2apb@erols.com>
54) [74853] Re: Windom Antenna's
by "Richard E. Robinson" <rerobins@email.uncc.edu>
55) [74854] Re: FLARE!!!!
by "Rod, N0RC" <n0rc@qsl.net>
56) [74855] NOAA/SEC site updated.
by "Rod, N0RC" <n0rc@qsl.net>
57) [74856] Re: FLARE is REAL
by "Rod, N0RC" <n0rc@qsl.net>
58) [74857] Re: Ground Affect?
by "Cla KA0GKC" <ka0gkc@arrl.net>
59) [74858] SST-30 Build
by Phil Wheeler <w7ox@earthlink.net>
60) [74859] RE: ANTS: Ground Affect?
by Mike Gipe <mgipe@reliablemeters.com>
61) [74860] OPS: Wire Antenna Contest Date?
by ARDUJENSKI@aol.com
62) [74861] Windom question
by "Rick Shindley" <Ricks@abac.com>
63) [74862] Re: FLARE is REAL
by "Paul Harden, NA5N" <na5n@rt66.com>
64) [74863] PROP: RE: "FLARE!!!!"
by Steve Yates <aa5tb@yahoo.com>
65) [74864] Re: FLARE is REAL
by David Hinerman <dlh1009@ritvax.isc.rit.edu>
66) [74865] Re: OPS: Wire Antenna Contest Date?
by Steve Yates <aa5tb@yahoo.com>
67) [74866] Re: WRTC Contest Atnennas

- by Monte Stark <ku7y@dri.edu>
- 68) [74867] Re: SM protoboards
by Mighty Mik <mightymik2@home.com>
- 69) [74868] Re: SM protoboards
by Mighty Mik <mightymik2@home.com>
- 70) [74869] Re: Windom question
by "George , W5YR" <w5yr@att.net>
- 71) [74870] Re: WRTC Contest Atnennas
by "George , W5YR" <w5yr@att.net>
- 72) [74871] Modification of KAMPlus TNC for PSK-31 Keying
by NB6M@aol.com
- 73) [74872] **OT** line topic
by Robert McAtee <w5tnj@camalott.com>
- 74) [74873] Re: WRTC Contest Atnennas
by Monte Stark <ku7y@dri.edu>
- 75) [74874] AT Alert, Maine
by "Steven Weber" <kd1jv@moose.ncia.net>
- 76) [74875] Fox: Hunt details for Thursday's hunt
by "Tom Whiteside" <n5tw@igg-tx.net>
- 77) [74876] Re: Windom question
by Phil Wheeler <w7ox@earthlink.net>
- 78) [74877] OT..... Switchable Attenuator Project
by Dave Barrett <DBarrett@creo.com>
- 79) [74878] Re: OT..... Switchable Attenuator Project
by "M05aaa00" <merryprankster@cwcom.net>
- 80) [74879] Re: ANTS: Ground Affect?
by "n6wg:First n6wg:Last" <n6wg@earthlink.net>
- 81) [74880] Re: Why elevate the antenna?
by "n6wg:First n6wg:Last" <n6wg@earthlink.net>
- 82) [74881] Upcoming ARRL Board of Directors meeting
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 83) [74882] QRP-L CD Version 3 - Weekly Friday Repost (long)
by Jim Larsen AL7FS <a17fs@pobox.alaska.net>
- 84) [74883] Re: WRTC Contest Atnennas
by Bill Coleman AA4LR <aa4lr@radio.org>
- 85) [74884] RE: OT..... Switchable Attenuator Project
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 86) [74885] TAC Contest Logs Due
by "Ron Polityka" <wb3aal@talon.net>
- 87) [74886] FOX Re: Hunt details for Thursday's hunt
by "Marshall Emm" <mgemm@mtechnologies.com>
- 88) [74887] Re: OT..... Switchable Attenuator Project
by "Dan W. Dooley" <dandooley@pipeline.com>
- 89) [74888] Re: Modification of KAMPlus TNC for PSK-31 Keying
by "Karl F. Larsen" <k5di@zianet.com>
- 90) [74889] Re: Modification of KAMPlus TNC for PSK-31 Keying
by NB6M@aol.com
- 91) [74890] RE: FOX Re: Hunt details for Thursday's hunt

- by Mike Gipe <mgipe@reliablemeters.com>
- 92) [74891] Re: Modification of KAMPlus TNC for PSK-31 Keying
by Phil Wheeler <w7ox@earthlink.net>
- 93) [74892] OT: Museum of Radio and Technology
by Rick McKee <kc8aon@juno.com>
- 94) [74893] Re: Fox: Hunt details for Thursday's hunt
by tom palmer <n1tp@worldnet.att.net>
- 95) [74894] postpone
by Dean W Manley <kh6b@juno.com>

Date: Mon, 10 Jul 2000 18:01:13 -0500
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "'ags@ieee.org'" <ags@ieee.org>, Low Power Amateur Radio Discussion <qrp-
l@Lehigh.EDU>
Subject: [74800] RE: 2N2/40 Lives!
Message-ID: <01BFEA98.D6B0C1E0.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Funny you should mention it. I just got back to work on mine. Bought the stencilled board at Ft. Tuthill last year. Yes, it's been a year and I'm working hard to defend my World's Slowest Man title.

I've got the receiver finished. It sounds fine, but takes a whale of a signal to produce a tiny amount of output from the speaker or phones. I know that some people had trouble with their surplus crystals in the filter, so I ordered a set from Jim, K8IQY today. Hoping I can get that rcvr doing right and move on to the transmit section soon.

Save a certificate for me!

72--Nick, WA5BDU

Preston Douglas, WJ2V, tells me that only 17 2N2/40s have been certified. Com'on now, I know there are more out there. Get'em on the air and certified. Really nice certificate from Preston.

72/73
Arth W6AGS

Date: Mon, 10 Jul 2000 19:10:45 EDT

From: Wa3ptg@aol.com
To: tailfeathers@juno.com, qrp-1@lehigh.edu
Subject: [74801] Re: Tentec 1380 freq adjustment?
Message-ID: <ee.79cd3b9.269bb1f5@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

While building the 1340, it seemed like there wasn't much "wiggle room" with the T44 toroid. I used a T50 instead, it gave me a lot more room for adjusting the winding.

I fine-tuned the winding by using 1 drop of superglue on one end of the coil, and then adjusted the other end with a toothpick. When I was happy with the tuning range, I gave it a drop of hot glue to hold the winding in place.

72 DE WA3PTG
Harry (Hap) Hurst NJQRP-EPAQRP
Wilmington DE QRP-L #1464

Date: Mon, 10 Jul 2000 16:13:07 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: ARDUJENSKI@aol.com
Cc: qrp-1@lehigh.edu
Subject: [74802] Re: WRTC Contest Atnennas
Message-ID: <396A5883.1590FE8D@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

ARDUJENSKI@aol.com wrote:

>
> Phil,
> Are you suggesting couriosity killed the cat? (smile) It is just that not a
> lot of discussion here promoting the WINDOM style antenna--alan kb7mbi

Windoms, especially the old original designs, seem to have fallen from favor. It will be interesting to see what the aantennas NG does with this one!

My take is that QRP ops are more tolerant of less-than-ideal antennas, partly due to the portable aspects of QRP. I would never put my PW-1 up

against my TH3Mk4 (or even my D4 rotatable dipole), but I do own use, and like the PW-1.

In 1954-55, I logged about 10,000 CW contacts from the Northwest (WA), and worked the world with 75 watts on 80 and 40 with an ARC-5 station (e.g., 599 reports from ZS on 80 CW). My antenna was a classic Windom 80 meter halfwave on a small lot. Nowhere was it above 20 ft, and it was bent to stay on the lot. But it loaded well (tapped tank circuit in a plywood box with an RF ammeter to peak the output .. no TV there, then) and it really got out.

But I guess physics have changed in 45 years, because now I read many erudite articles on how it could not have worked so well. Maybe I will have to try another one; drat, now my lot is 180 ft deep, so I may not be able to bend it enuff!

Hmmm .. guess I've put my foot into the "Windom Swamp" now!

73, Phil

Date: Mon, 10 Jul 2000 16:15:38 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: ekdave@earthlink.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [74803] Re: AB0GO backpacking ham radio a bust
Message-ID: <396A591A.51348779@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

David Ek wrote:

>
> Gang,
>
> Sorry to any of you who may have been listening for me Sat. and Sun.
> evenings while I was out backpacking. The trip itself was pretty good--too
> much rain, but that's the way it goes. But hamming from my backpack wasn't
> very fruitful. Sat. night I turned on the rig to find the band filled with
> hams in the IARU contest (tried to work some DX stations for a bit, but
> couldn't generate much attention)--not much room for a peanut-whistle rag
> chew.

I can relate, David. Seems like whenever I take a rig backpacking, there is a contest and it's "no go". Either bad timing, too many contests, or

not enough backpacking :-)

Phil

Date: Mon, 10 Jul 2000 17:23:41 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-1@lehigh.edu
Subject: [74804] Re: Manhattan Construction - a dissenting opinion
Message-ID: <Pine.SUN.4.10.10007101702330.10192-100000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Dennis, and others,
The Manhattan Style of construction is not for everyone, but it **is**
a good way to build something AND document it.

A little history.

Doug Hendricks and I were always trying to figure out how to write an article and illustrate it on how to build a simple transceiver from scratch. I made several attempts to illustrate the 38-Special built ugly style, and a couple others from various building contests, but it got complicated in a hurry. This was in response to fairly new QRPers who wanted to build a rig from scratch (not a kit), but didn't have the nerve to just start building one ugly style.

Then we saw Jim Kortge's (K8IQY) piece of art ...a beautiful piece of work that performed excellent as well. It was obvious **this** was the way to build something from scratch - at least from the standpoint of illustrating and documenting it so it could be built from scratch virtually "step-by-step."

Another concern with building something ugly is trying to build a second one and expecting repeatability. Not much of an issue on 40M, but certainly at the higher bands, as the component lead lengths and exactly how they hang in mid-air all determine how the circuit works. An inadvertent bend here or a lead closer to ground than the original can all alter how YOUR circuit will work. The Manhattan style of construction virtually eliminates these problems as all components are the same height above the ground plane and the orientation pretty much the same due to building it per the illustrations. Thus, very repeatable results. Particularly if you don't have proper test equipment to tweak the filters, etc.

However, you are correct that just building something ugly is the

fastest way to build something ... particularly *IF* you've done it before and survived the shock of how it looks -hi. (Although we ALL have a long way to go to match that ugly thing Brian Kassel entered into Ft. Tuthill last year! AND WON!).

I think the two main advantages of the Manhattan style are:

- 1) A great way to document building something from scratch so others can build one too. It does come the closest to having a PCB type of layout.
- 2) For those who want to build something and give it a unique, professional, cute look while still obviously home built. This is evident by the "oohs and aaahs" you heard when people first held Jim's 2N2/40 in their hands, and subsequently the artistic talents of others.

BTW, the term "Manhattan" style was termed by Chuck Adams after seeing Jim's 2N2/40, because the layout of components, the crystals, electrolytic caps, etc. looked like a miniature model of the towering buildings of downtown Manhattan.

Build how you wish, but as that Steve guy says, just "melt solder" and have fun.

72, Paul NA5N

Date: Mon, 10 Jul 2000 19:35:30 EDT
From: ARDUJENSKI@aol.com
To: qrp-1@lehigh.edu
Subject: [74805] Some WINDOM INFO
Message-ID: <4e.811b1fe.269bb7c2@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

To share with you what I could find on the WINDOM is LBCEBIK's site:
<http://www.cebik.com/gup9.html>

alan kb7mbi

Date: Mon, 10 Jul 2000 19:35:53 -0400
From: "John J. McDonough" <wb8rcr@arrl.net>
To: <ka0gkc@arrl.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [74806] Re: Manhattan Construction - a dissenting opinion
Message-ID: <006f01bfeac7\$98634fa0\$010044c0@Conor.baycty1.mi.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Not only the people, but also the project. When I built up a little PIC programmer, I automatically went with Manhattan. Didn't even think about any other way. But in building a little counter, I quickly figured out that Manhattan wasn't the way to do it.

It just depends!

72/73 de WB8RCR <http://members.home.com/wb8rcr/index.htm>
didileydadidah QRP-L #1446 Code Warriors #35

-----Original Message-----

From: Cla KA0GKC <ka0gkc@arrl.net>
Subject: Re: Manhattan Construction - a dissenting opinion

>The last two posts are a great example of why we have a variety of
>construction techniques. Some people find it easier one way, some the
other.
>Hence the often used cliché, "your mileage may vary"!

Date: Mon, 10 Jul 2000 17:41:04 -0600
From: "Rod, N0RC" <n0rc@qsl.net>
To: "Karl F. Larsen" <k5di@zianet.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74807] Re: FLARE!!!!
Message-ID: <20000710174104.A76038@io.frii.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Karl et.al.

On Mon, Jul 10, 2000 at 04:53:42PM -0600, Karl F. Larsen wrote:

>
> A massive Flare hit the earth about 1600 Z and all bands are very

The data available at: <http://www.sec.noaa.gov/today.html>, "Solar X-ray

Flux (5min data)", doesn't seem to show this. There was some "M" stuff but that is all I saw. Am I missing something?

73, Rod

Date: Mon, 10 Jul 2000 18:01:00 -0600
From: jaywa5whn@juno.com
To: qrp-1@lehigh.edu
Subject: [74808] Ft. Tuthill 2000, July 28 - 30
Message-ID: <20000710.180104.-614127.2.jaywa5whn@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Just in case you are a fence sitter,
from last year;

<http://www.fix.net/~jparker/norcal/fttuthill/tuthill.htm>

<http://www.fix.net/~jparker/norcal/fttuthill/otherssay.htm>

<http://www.flagstaff.az.us/images/flagmap.gif>

For this year

<http://www.extremezone.com/~nk7m/qrp2000.htm>

Well, what are you waiting for, next year's event? ;-)

 ...Jay WA5WHN soon to be /7 in Coconino County,
AZ { minus 17 days & counting}

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<http://dl.www.juno.com/get/tagj>.

Date: Mon, 10 Jul 2000 18:09:58 -0600
From: Ray Colbert <af852@rgfn.epcc.edu>
To: qrp-1@lehigh.edu
Subject: [74809] Re: FLARE!!!!
Message-ID: <396A65D6.1AFFACE1@rgfn.epcc.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I don't think the "flare" hit the earth but
instead was the CME particles, or results of
the flare which have disrupted things. Lots of
spotty stuff on the digital satellite system today
which is probably a result of that as well.

--
"The more I see of the representatives of the people, the more I
admire my dogs." letter from Count d'Orsay to John Foster 1850
Ray Colbert, W5XE, 00TC#3618, SOWP#1064M NARTE-NCT2 SOC#78
MI-QRP 379QRP-ARCI 5784 NORCAL 1110, El Paso, (FAR WEST) TEXAS

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Date: Mon, 10 Jul 2000 20:28:26 EDT
From: AdamN7YA@aol.com
To: qrp-1@lehigh.edu
Subject: [74810] Re: A-1 Operator
Message-ID: <e8.6e5b8f6.269bc42a@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 7/10/2000 5:01:23 AM Pacific Daylight Time,
Shepherd@aol.com writes:

<< We have been know to fly in packs looking for bright, clean shiny antennas

to "mark"! >>

Good thing mine are all indoor wires!

73...Adam, N7YA
QRP-L 1608, SOC 143
DXer...cant help it!
CW Spoken Here . .

Date: Mon, 10 Jul 2000 18:40:23 -0600
From: Niels Jensen Kristjansson <nkristja@cadvision.com>
To: qrp-l@Lehigh.EDU
Subject: [74811] Drake SW-4A Schematic?
Message-ID: <1.5.4.16.20000710183726.1a476934@cadvision.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Hi gang,

I have a friend who is not a ham (yet but I=B4m working on him) and he was given a Drake SW-4A and by the sounds of it the radio needs an=20 alignment job. The rig did not come with a manual so I am wondering=20 if anyone has a schematic and would be willing make a copy of it and perhaps the alignment procedure. I will cover any cost involved.

Thanks in advance.

73 de Niels
VE6NJK/TF3NJ
Calgary, AB
CANADA

Date: Mon, 10 Jul 2000 17:46:13 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: AdamN7YA@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74812] Re: A-1 Operator
Message-ID: <396A6E55.AD853F6@earthlink.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

AdamN7YA@aol.com wrote:

>
> In a message dated 7/10/2000 5:01:23 AM Pacific Daylight Time,
> Shepherd@aol.com writes:
>
> << We have been know to fly in packs looking for bright, clean shiny antennas
> to "mark"! >>
>
> Good thing mine are all indoor wires!
>

Remember these are the Flying Pigs. How strong is your roof??

Phil

Date: Mon, 10 Jul 2000 17:48:40 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: jaywa5whn@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [74813] Re: Ft. Tuthill 2000, July 28 - 30
Message-ID: <396A6EE8.1E0B95CD@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

jaywa5whn@juno.com wrote:

>
> Well, what are you waiting for, next year's event? ;-)
>

Yupp .. I carelessly scheduled all my travel for the Summer to coincide
with contests and qrp meetings. Next year I will do better!

Phil

Date: Mon, 10 Jul 2000 20:50:01 EDT
From: N10DL@aol.com

To: qrp-1@lehigh.edu
Subject: [74814] RE: Backpacking a bust
Message-ID: <36.86f1d05.269bc939@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

One way to get away from all the contests when you are backpacking is to take a 30 meter rig with you. I usually take one with me and have had some very nice QSO's.(from the HUTS in the whites not a tent)

Aron
N10DL

Date: Mon, 10 Jul 2000 20:52:41 -0400
From: "Charles Mabbott" <crmabbott@mediaone.net>
To: <qrp-1@Lehigh.EDU>
Subject: [74815] SG 2020 owners.....
Message-ID: <000601bfead2\$51b659c0\$0201a8c0@mw.mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I am taking an Allen Bradley PLC5 programming class. There is an option to connect the PLC's to each other using Allen Bradley's DATA Highway software.

Now to the point! The connectors they use on the three wire cable between the PLC's looks a lot like the three wire power connector for the SG 2020, you know the green one.

I am going to try to find out;

- a) Is it really the same
- b) Can we get them and how much
- c) From who

I have not found those laying around local stores so when I saw this it seemed interesting. You know there are some things you just can't have to many of. Will let you know.

73,
Chuck Mabbott AA8VS

"Why does any advanced civilization seek to destroy less advanced one? Because the land is strategically valuable, because there are resources that can be cultivated and exploited, but most of all, simply because they can."

-- G'Kar, And Now For a Word

Date: Mon, 10 Jul 2000 20:43:01 -0500
From: "Manager QRP-L" <manager@astro.cc.lehigh.edu>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [74816] Re: Subject line topics-Please Read
Message-ID: <055601bfead9\$62135460\$0200000a@mcg.net>

Hello all,

The two subject line prefixes FOX: and OT: are very good and should be used. FOX: because it has worked so well and OT: because this collection of people have a unique broad range of technical knowledge and we should be able to share

that as well. I only ask that the OT: prefix be used to solicit that knowledge and that you make an attempt to answer your question via a web search first if you have web access. Also, it is NOT to be used as an excuse to post off topic comments, nor is "OBQRP" as part of a message in justification. If you have a comment that is off topic, there are forums for that elsewhere and you are asked to make them there and not here.

When you ask an off topic question ALWAYS ask for private replies only, as your subject probably has a limited appeal to this group of over 3000. And if you reply to an OT: message ALWAYS reply in private.

For those that would like to see replies to the question, email the requester that you want him/her to share responses or provide a compilation of the replies. The requester should be ready and willing to do this. If your not, do not post an off topic message here. If the requester gets many requests for the replies such that individual replies would be burdensome then go ahead and post a compilation of the replies in a second message under the same subject line.

This procedure should satisfy all parties and keep an off topic subject to a minimum of two messages and help maintain the signal to noise ratio. When you think about it, not only is it common sense, it's just a matter of courtesy to the list.

Yes, this is a bit complicated and I'm sure it won't happen all the time, but if we can do this most of the time I see no reason why the occasional off topic request for help can't be accommodated.

Other subject line prefixes are very much encouraged as an additional courtesy to the list but I don't see a reason to require them. Using them will provide you with a better chance of attracting fellow QRP-L'ers interested in that subject. HB: ANT: Elmerxxx: 2N2 etc seem to be well understood but having a large "official" list of these will just become complicated to use and most certainly grow to be impossible to maintain.

Thank you for your cooperation and attention, 73 de Cla KAOGKC Manager QRP-L

Date: Mon, 10 Jul 2000 21:40:48 -0400
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [74817] Knew Bee Heah, High Y'all
Message-ID: <20000710.214248.-92033.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

QRPL # 2207, THAT'S ME

JUST got my qrpl number, brand spanking new.... hope to enjoy the list... 'course I don't kneaux much bout nuttin cept wire/rope ants....

Learned 'bout that from a young cajun lad in maine... seems it took him about 18hrs to come to his sense...(don't kneaux how many he got)... him and his cajun mama be still crying at the outpuring of affliction received in e-mails today...he's really upset that he got so upset over sumthin or another... anyhow he laid #765 to rest in a bucket of louisiana dirt he done brought with him to maine... put a cardboard headstone which read #765 no longer alive...

However the listserve gave him new life with # 2207 next to his call... so he gets to start anew...with his new call... kinda like folk finding new life with qrp after working qro for years...

well gotta go look at my kayak sum meaux... gonna find a place for the qrp++ sometime I hopes..
ke1la #2207

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<http://dl.www.juno.com/get/tagj>.

Date: Mon, 10 Jul 2000 19:33:34 -0700 (PDT)
From: Steve Yates <aa5tb@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74818] Re: AB0GO backpacking ham radio a bust
Message-ID: <20000711023334.19477.qmail@web3002.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Sorry to hear about the rain but it sounds like fun.
It's just too hot here for me to do any kind of
backpacking (except maybe in winter) so I envy y'all.

Just as a thought you might try 30m for your
backpacking trips if you have a trail friendly rig for
it. I usually take 30m on my camping trips (except
Field Day) and have very good success. Since contest
aren't allowed on 30m this is never a problem. I
never have any problem finding someone to work day or
night here in Texas. If you're trying to keep a sked
with a friend or something you can time it to work
just about any distance, NVIS in the middle of the day
to around the world at night.

=====
73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://www.geocities.com/aa5tb>
aa5tb@arrl.net

Do You Yahoo!?
Get Yahoo! Mail Free email you can access from anywhere!
<http://mail.yahoo.com/>

Date: Mon, 10 Jul 2000 21:59:09 -0500
From: "Maddog 'n' Miracles" <maddog@io.com>
To: ags@ieee.org, qrp-l@Lehigh.edu
Subject: [74819] Re: 2N2/40 Lives!
Message-ID: <4.3.2.7.1.20000710215631.00c25c40@mail.io.com>

Content-Type: text/plain; charset="us-ascii"; format=flowed

On Mon, 10 Jul 2000 11:20:26 -0700, QRP-L, you wrote:

```
>certified. Com'on now, I know there are more out there. Get'em on the
```

>

>a good number of solid QSOs with a vertical dipole in the rafters of the

>

```
>at
```

>

```
> http://www.qsl.net/w6ags
```

72,

monty N5FC

```

*****\
* Monty Northrup (N5FC) * "There is no way to peace: * \ (**)
* Carolyn Blankenship * peace IS the way." * /^^^^^^) ~
* maddog@io.com * http://www.io.com/~maddog/ * /^^/^^/^^/
*****

```

Gang:

PSSSSTTT.....pass the word = the long awaited and discussed Summer FOX Hunt is well underway. Two FOXes have already been out of their dens. Another one will be on this Thursday evening (USA time) at 0100 UTC. There are some exceptional prizes for the top hunters and FOXes.

Details re the FOX hunt, including skedule, info on the FOXes themselves, skeds, the prizes, and the results are at this url = <http://www.cqc.org/sfox>.

So even if you have not been in this or any other FOX hunt....now is your chance. All you have to do is take part. If you are already active, please invite other QRPers. Everybody is welcome :-).

<http://www.cqc.org/sfox>.

Date: Mon, 10 Jul 2000 23:22:37 EDT
From: K1JD@aol.com
To: elecraft@qth.net, qrp-1@lehigh.edu
Subject: [74821] W5YA/7 UTAH
Message-ID: <b2.7b192ec.269becfd@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

All

Fred KT5X is signing W5YA/P using his k2 and operating portable from up in the high desert. He is QRV on 14.028.

73,
John K1JD
Jamestown, RI
<http://hometown.aol.com/k1jd/index.html>
K2's #139 & 583 (& #917 & #948)

Date: Mon, 10 Jul 2000 20:51:37 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: aa5tb@yahoo.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [74822] Re: AB0G0 backpacking ham radio a bust
Message-ID: <396A99C9.E4421301@earthlink.net>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Steve Yates wrote:

>
> Just as a thought you might try 30m for your
> backpacking trips if you have a trail friendly rig for
> it. I usually take 30m on my camping trips (except
> Field Day) and have very good success. Since contest
> aren't allowed on 30m this is never a problem.

Good tip, Steve. Maybe I will have to build the SST-30 + KC-1 kit I
have stashed in the garage; it may be just the thing for it. It would
deal with the contest issue, to be sure.

Thanks!

Phil

Date: Mon, 10 Jul 2000 22:16:31 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-l@lehigh.edu, rattray@gpfn.sk.ca, n5tw@igg-tx.net
Subject: [74823] FOX: Big Dawgs are on the hunt
Message-ID: <396A4B3F.11325.445CC5@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Attention all foxes-- the Big Dawgs are now in business and will be after YOUR
pelt.

BIG DAWGS...
N1FN MARSHALL (ET)
N5TW TOM
WJ1R LARRY
NW7DX BEN
N6WG BOB

Of course that obviously includes our own pelts [g] but who says it has to make
sense. We will be hunting as a pack, and when you hear us baying you can hide,
but you can't run.

Marshall Emm, N1FN
Milestone Technologies, Inc.
(303) 752-3382
<http://www.mtechnologies.com>

Date: Mon, 10 Jul 2000 21:39:10 +0100
From: Chuck Adams <k7qo@primenet.com>
To: qrp-1@lehigh.edu
Subject: [74824] Manhattan Style Building
Message-ID: <4.3.2.7.0.20000710212019.00aef310@pop.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Paul Harden posted that I coined the word Manhattan Building. BZZZT.
I used the term while at Dayton and I think I first saw it in Jim Kortge's
notes, but that was a long long time ago in a galaxy far away.

Turns out that the term originated in the EE labs at Stanford University
(a fine institute of higher learning in California). Wes, W7Z0I, is in the
process of getting the final word from one or more profs at Stanford.

I wrote an article for George Heron and the Homebrewer second issue.

As a freebie, go to

<http://www.qsl.net/k7qo/manhat.html>

Now it has been some time since I visited the article, so there may be
an extra "L" at the last, so it is left as an exercise for the reader to
correct the URL..... :-) I can't get to it while in the compose mode with
this software.

Look at the HTML version of the article. Now don't email me about
typos, etc. George fixed those in the article, which you should have if
you subscribed.

As Jay mentioned in a previous post I am moving this Friday. Everything
that I own is in boxes and I won't be able to get to anything until it is
unpacked. Hopefully by Sunday, but that is not guaranteed.... :-)

I have been working on part 2 of the article by building several Dave Benson,
NN1G, rigs published in ARCI QQ and reproduced in many places on the
web. Also some K7QO additions and a series of notes on setting up on

several bands. This article will only appear in the Homebrewer publication and nowhere else. So you have to subscribe to George's newsletter to get it. I promised him exclusive rights to it to help him out and that is the way it will be.

So this is a note to clarify several points. Hope it helps all. It is an advertisement for the NJ Homebrewer Newsletter and George can point to the URL for the club site.....

I am looking forward to getting the 80 meter vee-beam up by Sunday and then the Force-12 tower and beam later. I have to restart on WAS and DXCC, since I consider the move to a new QTH a totally new QTH.

See you on all bands and everybody needs to get on. Too much time spent at keyboards and not enough on the air activity..... IMHO.

And to the many from the list that sent cards and letters. A surprise is on the way in a few weeks.... I have to do Tuthill first and then I can catch up on the backlog.

dit dit

Date: Mon, 10 Jul 2000 21:35:50 -0700
From: "K7FD-N7SG" <cqdx@teleport.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [74825] Re: FLARE!!!!
Message-ID: <005401bfeaf1\$80377800\$ed231ad8@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>Don't try for anything good tonight.

>

>Yours Truly,

>

> - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Peter at the W6YX Stanford Radio Club was lucky enough to call CQ on 40m. In fact, his very first CQ with a brand new Norcal 40a -- and guess what, my

NC40a heard him calling!! So ya' can't beat that, NC40a to NC40a for qso
NUMBER ONE, and random at that! You just never know...

72 John K7FD, Norcal Zombie 736, now with a 40m LOOP (bye bye vertical...)

Date: Tue, 11 Jul 2000 01:39:06 -0400
From: Pete Burbank <plburbank@kih.net>
To: <qrp-1@Lehigh.EDU>
Subject: [74826] Re: FOX: Big Dawgs are on the hunt
Message-ID: <3.0.32.20000711013902.00a065a8@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 10:16 PM 7/10/00 -0600, you wrote:

>Attention all foxes-- the Big Dawgs are now in business and will be after
YOUR

>pelt.

>

>BIG DAWGS...

>N1FN MARSHALL (ET)

>N5TW TOM

>WJ1R LARRY

>NW7DX BEN

>N6WG BOB

>

>Of course that obviously includes our own pelts [g] but who says it has to
make

>sense. We will be hunting as a pack, and when you hear us baying you can
hide,

>but you can't run.

>

>

>

>Marshall Emm, N1FN

>Milestone Technologies, Inc.

>(303) 752-3382

><http://www.mtechnologies.com>

>

>

Ha!

The Swamp Rats are cookin' and you will see our evil eyes
glowing in the darkness. We also like cheese(heads) a lot.:-)

73 Pete NV4V

Date: Tue, 11 Jul 2000 07:53:40 +0200
From: Alen Mitrovic <alen.mitrovic@hermes.si>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74827] RG 174 use
Message-ID: <EA63CEA50DF8D311ABAD00B0D0211732E59BF9@hal9000.hermes.si>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hi!

Does anyone has experiences with Field day use of RG 174 coax cable as a feeder for dipole and G5RV on 20 and 15 meters?

best 72 de

Alen S53MA

Alen - S53MA

Alen.Mitrovic@hermes.si
S53MA@hermes.si
S53MA@qsl.net
KOPER QRP Group #001, DL QRP, G-QRP #10644,
AGCW #2865, QRP-L, Alaska QRP Club #223
Personal Webpage: <http://www.qsl.net/s53ma>

Date: Tue, 11 Jul 2000 02:19:21 -0400 (EDT)
From: Bob Patten <n4bp@bc.seflin.org>
To: Alen Mitrovic <alen.mitrovic@hermes.si>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74828] Re: RG 174 use (also RG-6)
Message-ID: <Pine.3.89.10007110248.B21611-01000000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 11 Jul 2000, Alen Mitrovic wrote:

>
> Does anyone has experiences with Field day use of RG 174 coax cable as a
> feeder for dipole and G5RV on 20 and 15 meters?
>

Forgot to mention in our FD writeup for the Guano Reef Bashful Perverts that we used RG-6 for our main HF antenna, a four band vertical. This stuff is a little heavier than RG-174, but lighter than RG-8X, which I believe would make it very useful for backpacking. In fact, I plan to backpack a 50 foot length of the stuff for the Bumblebee Sprint the end of this month. But getting back to FD, our vertical fed with this stuff performed at least as well as it ever did when fed with RG-8X in past years. RG-6 is similar to hard line in that it is fairly stiff and has very low loss. It has an impedance of 75 ohms, but the K2 had no problems with the slight increase in SWR. Since its primary use is for distribution of cable TV signals, it uses "F" connectors. For our use, we needed "F" to BNC adaptors to mate with the K2, with an additional BNC to PL-259 adaptor at the antenna end. Oh and did I mention that it's dirt cheap, probably obtainable free as leftover scraps from cable companies? I would highly recommend it for Field Day.

73,

Bob Patten, N4BP

(0 0)

Plantation, FL

o00o-()-o00

E-Mail: n4bp@bc.seflin.org

Web Page: <http://www.qsl.net/n4bp>

Brass Pounder BBS: (954) 472-7715

SOC #1Whiners #6

Date: Tue, 11 Jul 2000 03:47:09 -0400

From: Bill Lazure <n2tpa@juno.com>

To: qrp-l@lehigh.edu

Cc: ka0gkc@ARRL.net, zikot@erie.net, ka9nzi@ARRL.net, sjolin@swbell.net,
n4so@juno.com, k5di@zianet.com, n1tp@worldnet.att.net, w1ro@aol.com,
jcoote@ci.arcadia.ca.us, bkassel@dancris.com

Subject: [74829] OP: 10 Meter Operation

Message-ID: <20000711.034713.-363233.1.n2tpa@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Gang,

I received a dozen or so responses to my query on why 10 Meters is

particularly dead lately. Consensus seems to be it's either because 6 is so hot, or 'cause everyone's waiting for winter when the band improves.

Almost everyone said "set something up, I'll be there". The next few weekends are tough for me, so I'll be on today from 1330 to 1500 EDT (1730 to 1900 ?? UTC), and if I'm lucky, 1530 to 1630 EDT (Have to pick number-one-son up from work at 1515). If I'm not there, feel free to start without me. I'd love to get on the band and hear people calling CQ!!! Look around 28.060 +/-.

73,

Bill
W2EB

Date: Tue, 11 Jul 2000 01:20:30 PDT
From: "Leon Heller" <leon_heller@hotmail.com>
To: mightymik2@home.com, qrp-1@Lehigh.EDU
Subject: [74830] Re: SM protoboards
Message-ID: <20000711082030.28295.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>
>What i'd like to see is maybe a set of rubber stamps in various sizes...S08
>and MS08 come to mind... that would allow me to print and etch relatively
>small boards. Proto areas could be another stamp.
>

Silk-screen printing often used to be used for PCB production many years ago, and should work better than rubber stamps. Unfortunately, I can't remember the details, although I worked in a PCB dept. using the process, for a couple of weeks. It was nearly 40 years ago.

73, Leon

--
Leon Heller, G1HSM
Tel (work): +44 1327 357824 Tel (mobile): +44 79 9098 1221
InfraRed Integrated Systems Ltd., Towcester Mill, Towcester, Northants.,
NN12 6AD, United Kingdom.
Email:leon_heller@hotmail.com
Web page: <http://www.geocities.com/SiliconValley/Code/1835>

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>

Date: Tue, 11 Jul 2000 02:24:10 -0600
From: "Rod, N0RC" <n0rc@qsl.net>
To: "qrp-1" <qrp-1@Lehigh.EDU>, <hamjoel@juno.com>
Subject: [74831] Re: Knew Bee Heah, High Y'all
Message-ID: <008001bfeb11\$ba7ba520\$0a8611d8@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Land-a-goshin:

If we'd a knowed you were comin' we'd a baked a cake! ;-)

Welcome aboard knew bea. I think you'll find this a fittin' place. Oh folks do get testy once in a while, but it's just the hot summer weather me thinks. Once & a while somebody does need a good smack up side the head. And the fine folks who watch over us makes sure justice is served.

Be well, do good radio, and stay in touch.

72/3 Rod, N0RC -- Fort Collins, CO

P.S. Welcome back.

Date: Tue, 11 Jul 2000 06:47:56 -0400
From: Tom and Roxy <zikot@erie.net>
To: Bill Lazure <n2tpa@juno.com>, qrp-1@lehigh.edu
Cc: ka0gkc@ARRL.net, ka9nzi@ARRL.net, sjolin@swbell.net, n4so@juno.com, k5di@zianet.com, n1tp@worldnet.att.net, wlro@aol.com, jcoote@ci.arcadia.ca.us, bkassel@dancris.com
Subject: [74832] Re: OP: 10 Meter Operation
Message-ID: <3.0.5.32.20000711064756.00804100@erie.net>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Why doesn't the QRP-L group just designate days of the month for all of us to try and other on a particular band/mode? Have a days setup for 80m CW, 80m SSB, 40m CW, 40m SSB, etc.. this way we could generate activity on a rotating schedule. This may have been discussed in the past but it just came to me and I thought I would pass it along. Also, has anyone given any thought to awards for working fellow QRP-L members collectively or by band/mode? i.e. working 25 or 50 QRP-L members on each band or mode? These are just my thoughts to get more people active and to promote activity, especially on 10m CW.

73's es gud DX!

Tom & Roxanne
WA1VAI/3
QRP-L #2204

At 03:47 AM 7/11/00 -0400, Bill Lazure wrote:

>Gang,

>

> I received a dozen or so responses to my query on why 10 Meters is particularly dead lately. Consensus seems to be it's either because 6 is so hot, or 'cause everyone's waiting for winter when the band improves.

> Almost everyone said "set something up, I'll be there". The next few weekends are tough for me, so I'll be on today from 1330 to 1500 EDT (1730 to 1900 ?? UTC), and if I'm lucky, 1530 to 1630 EDT (Have to pick number-one-son up from work at 1515). If I'm not there, feel free to start without me. I'd love to get on the band and hear people calling >CQ!!! Look around 28.060 +/-.

>

>73,

>

>Bill

>W2EB

>

>

Date: Tue, 11 Jul 2000 04:54:45 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>

To: "Rod, N0RC" <n0rc@qsl.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74833] Re: FLARE!!!!
Message-ID: <Pine.LNX.4.10.10007110453080.805-100000@cannac.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I didn't see any report of a flare, but the bands just dropped out.
Something must have happened. 80 and 40 got VERY quiet. No lightning noise
until it got to town.

On Mon, 10 Jul 2000, Rod, N0RC wrote:

> Karl et.al.
>
> On Mon, Jul 10, 2000 at 04:53:42PM -0600, Karl F. Larsen wrote:
> >
> > A massive Flare hit the earth about 1600 Z and all bands are very
>
> The data available at: <http://www.sec.noaa.gov/today.html>, "Solar X-ray
> Flux (5min data)", doesn't seem to show this. There was some "M" stuff
> but that is all I saw. Am I missing something?
>
> 73, Rod
>
>

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 11 Jul 2000 05:15:48 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: QRP-L List <qrp-l@lehigh.edu>
Subject: [74834] Windom Antenna's
Message-ID: <Pine.LNX.4.10.10007110503510.805-100000@cannac.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

According to the ARRL Antenna Book of 1970, the last new one I
have purchased, on page 191 they have a picture of 2 versions. One uses a
single wire attached EXACTLY .36L from one end where $L = 468/\text{freq}$. The
single wire is of any length and attaches to a tuned network which is link

coupled to the transmitter. The tuned network acts against ground, whatever that is...

The second version feeds a 136 foot antenna at exactly 44'4" from an end with 300 ohm tv line any length to the Heathkit Balun Coils and from there to your radio with 70 ohm coax.

The article says this style of antenna was VERY popular in the 1930's. I guess it was cheap.

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 11 Jul 2000 05:23:38 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Ray Colbert <af852@rgfn.epcc.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74835] Re: FLARE!!!!
Message-ID: <Pine.LNX.4.10.10007110520500.805-100000@cannac.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Sorry but I don't know all the details of the solar effect on our HF bands. When nothing works and the receiver is very quiet and the antenna is still connected it's a FLARE!!! What are CME particles? They sure did a number on things world-wide.

On Mon, 10 Jul 2000, Ray Colbert wrote:

> I don't think the "flare" hit the earth but
> instead was the CME particles, or results of
> the flare which have disrupted things. Lots of
> spotty stuff on the digital satellite system today
> which is probably a result of that as well.
> --
> "The more I see of the representatives of the people, the more I
> admire my dogs." letter from Count d'Orsay to John Foster 1850
> Ray Colbert, W5XE, OOTC#3618, SOWP#1064M NARTE-NCT2 SOC#78
> MI-QRP 379QRP-ARCI 5784 NORCAL 1110, El Paso, (FAR WEST) TEXAS
>
> _____NetZero Free Internet Access and Email_____

> Download Now <http://www.netzero.net/download/index.html>
> Request a CDRom 1-800-333-3633
> -----
>
>

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue Jul 11 07:40:20 2000
From: Mercxx@aol.com
To: <qrp-l@lehigh.edu>
Subject: [74836] Homebrew Books
Message-ID: <200007111139.HAA200756@nss4.cc.lehigh.edu>
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Good morning,

I was wondering is there a good or recommended old or new compendium of QRP homebrew projects? Thanks in advance.

Steve
N4TKP
QRP-L #1763

Date: Tue, 11 Jul 2000 06:59:48 -0500
From: "Cla KA0GKC" <ka0gkc@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [74837] Making small patches of PC Boards
Message-ID: <006d01bfeb2f\$a56df3e0\$0200000a@mcg.net>

----- Original Message -----

From: "Leon Heller" <leon_heller@hotmail.com>

| Silk-screen printing often used to be used for PCB production many years
| ago, and should work better than rubber stamps.

This is a viable technique for small runs of PCB's for club projects etc. If you make the frame and artwork, a silkscreen supplier will do the rest for

about \$50 or so. Boards can be screened with resist (paint) and provided just like that in the kit leaving it up to the builder to etch and drill. 50 boards would end up being about 2 bucks each.

73 de Cla KA0GKC

Date: Tue, 11 Jul 2000 08:00:57 -0400
From: Greg Weinfurtner <weinfurt@oak.cats.ohiou.edu>
To: qrp-1@Lehigh.EDU
Subject: [74838] Lowering power level on the HR-2600
Message-ID: <v03110701b590b99edfae@[132.235.81.133]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi all,

Has anyone used a Uniden 10 meter all-mode HR-2600 as a qrp rig?
How did you lower the power level? Simple pot adjust...?

NS80

Date: Tue, 11 Jul 2000 08:29:44 -0400
From: mike <mikemga@sover.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [74839] remove
Message-ID: <396B1338.1F58586B@sover.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

PLS remove me from list TKS

Date: Tue, 11 Jul 2000 06:45:32 -0600 (MDT)

From: "Karl F. Larsen" <k5di@zianet.com>
To: QRP-L List <qrp-l@lehigh.edu>
Subject: [74840] FLARE is REAL
Message-ID: <Pine.LNX.4.10.10007110643180.805-100000@cannac.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Just listened to WWV (I can hear them now) and we had a FLARE
yesterday not CMS or lsmft.

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 11 Jul 2000 06:04:27 -0700
From: Bob Hightower <nk7m@extremezone.com>
To: eleccraft@qth.net, qrp-l@lehigh.edu
Subject: [74841] K2's at Ft Tuthill
Message-ID: <200007111300.GAA11666@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

If you are planning on coming to Ft Tuthill (July 28, 29 and 30), and are a K2 owner, we would like to have you bring your rig for what could be the largest display of K2's on the planet. Plans are to have all the K2s displayed on a table, with their owners in attendance, and have a group picture taken. If it works out, we would like to have Wayne and Eric prominently in the picture. Copies will be available for all who participate.

At no time will your K2 be out of your sight, and, if you have not already done so, provisions will be made to mark your rig (not permanently) so that you know it is yours (even tho you have the SN embedded in your psyche).

So, please join us in this effort. I recall a photo some years back of rigs stacked up, at the Zuni Loop site, I believe, and would like to see a similar pile of K2s.

Bob Hightower NK7M
Chandler, AZ
SOC #20
K2 #157/255

<http://www.extremezone.com/~nk7m>

Date: Tue, 11 Jul 2000 08:58:54 -0400
From: "AI2Q Alex" <ai2q@ispchannel.com>
To: <W1REX@aol.com>
Cc: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [74842] RE: CLUB: LOBSTERCON!!
Message-ID: <001801bfeb37\$c496a980\$5c32a7d0@ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Rex OM: please count me in. -- Vy 73, AI2Q, Alex in Kennebunk .-.-.

PS: you are to be congratulated for taking the time and spending the energy to set this up. Thank you.

-----Original Message-----

From: W1REX@aol.com [mailto:W1REX@aol.com]
Sent: Monday, July 10, 2000 11:35 PM
To: QRP-L@Lehigh.ED
Subject: CLUB: LOBSTERCON!!

Hello again fellow QRP enthusiasts.....

For those of you who would really like to go to Ft. Tuthill but can only drive as far as Ft. Williams, Maine, LOBSTERCON is still on!! Northern New England QRPers, and ANY other interested passers-by, will be meeting at Ft. Williams Park in beautiful Cape Elizabeth, Maine on Saturday July 15th. We have a nice "sunny" spot reserved with a view of Portland Headlight. (See QST

Nov. 1997). The park is open from sunup to sundown and is absolutely free. Attending LOBSTERCON is a great way to meet your fellow QRPers in the northern New England area, and would be practical experience if you are interested in OPSAIL, tall ships revue on the 28th of July or the AMSAT convention in the fall. Bring some stuff to show off, swap or operate. A portable chair and shade producing device are desirable but not mandatory. Any other equipment or appliance that would come in handy and is "easy" to bring will be appreciated. In the tradition of those inpromptu gatherings out

in the SanFran area, we will be preparing Maine "deep pot style pizza" ie. LOBSTERS for lunch and 2 (two) whole, freshly caught in Cape Elizabeth waters, HARD shell lobsters with corn on the cobb and soda is only 15 (FIFTEEN) BUCKS. For those of you who do not fancy the taste, or are dietarily restricted, bring you own viddles. Sodas will be provided. (Alcoholic beverages are banned in all public parks in Maine). Nifty badges will be provided for attendees that give enough advance notice. IF YOU WOULD LIKE TO PARTAKE IN THE LOBSTER FEED, PLEASE REPLY QUICKLY AS THE LOBSTERMAN PROVIDING THEM HAS TO CATCH THEM!!! We need to give him an advance order so that he does not sell them all to the tousists.....We have about 15 to 20 people already planning to be there...so please let me know quickly if YOU are planning to be there.

Looking forward to meeting you there!

W1REX Rex Harper (207-856-5573 work or w1rex@aol.com)

Date: Tue, 11 Jul 2000 07:12:35 -0600
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "QRP-L" <QRP-L@lehigh.edu>
Subject: [74843] ANTS: Ground Affect?
Message-ID: <008f01bfeb39\$aef63ee0\$d208710f@sg2939h.col.hp.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just wondering if it is worth the effort to raise the height of my CFZ from 35' to 70'. Will I see a "noticeble" increase in signal strengths?

I'm using a extend double zep (center fed dipole) with 250' of high quality 300 ohm feed line. Each leg is 43' long. It's apex is about 35' pulled up to the top of a ponderosa tree. The ends of the legs are likewise at 35'. This antenna works pretty good! If I can hear 'em most cases I can work 'em!

I could (with mucho effort) setup my DK9SQ mast on top of a sig corp mast and get the apex maybe at 60-70' but the elements would have to slope down like a inverted vee. Is this effort going to pay off is several s-units? Is the "ground effect" really sucking my signal up at 35'? Yes, I know it depends on frequency. So let's say I'm using 40m most often.

Never used a really high dipole and curious if it's REALLY better than your average ant setup. Is higher that much better if so why? Can't decipher my 1979 ARRL antenna book's explanation on height and ground effect.

Steve/n0tu

Date: Tue, 11 Jul 2000 09:22:54 EDT
From: ARDUJENSKI@aol.com
To: qrp-1@lehigh.edu
Subject: [74844] Why elevate the antenna?
Message-ID: <c.7b98e98.269c79ae@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Got your attention? Well here is an interesting site I stumbled on for portable HF ops and restricted areas. Just lay your wire on the ground--alan kb7mbi
<http://users.erols.com/k3mt/graswire/graswire.htm>

Date: Tue, 11 Jul 2000 09:30:42 -0400
From: "w8diz" <w8diz@cinci.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [74845] Re: Ground Affect?
Message-ID: <00d601bfeb3c\$35ea83f0\$1461a518@cinci.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Steve,

I looked up the data in the ARRL Antenna Manual 1988.
On page 3-8, if you go from 1/4 to 1/2 wave above average ground, your signal with gain about 3dB at 30 deg elevation.
Also, the cloud burning characteristics will diminish about 12 dB.

I read somewhere long time ago that 30 degrees is an optimal angle for 40 meters. If that is true, then 1/2 wave above ground is a winner.

73 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio
Clermont County - EM79uf - near Cincinnati; 39.218N - 84.305W
FPqrp-1 SOC-8 DLQRPAG-1454 ARCI-10226 QRPL-1998 10X-9389 CATT-26 K2-493
<http://home.cinci.rr.com/w8diz> [AOL-IM "w8diz"]

----- Original Message -----

From: "Steve/n0tu" <n0tu@webaccess.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, July 11, 2000 9:12 AM
Subject: ANTS: Ground Affect?

> Just wondering if it is worth the effort to raise the height of my CFZ
from
> 35' to 70'. Will I see a "noticeble" increase in signal strengths?
>
> I'm using a extend double zep (center fed dipole) with 250' of high
quality
> 300 ohm feed line. Each leg is 43' long. It's apex is about 35' pulled up
to
> the top of a ponderosa tree. The ends of the legs are likewise at 35'.
This
> antenna works pretty good! If I can hear 'em most cases I can work 'em!
>
> I could (with mucho effort) setup my DK9SQ mast on top of a sig corp mast
> and get the apex maybe at 60-70' but the elements would have to slope down
> like a inverted vee. Is this effort going to pay off is several s-units?
Is
> the "ground effect" really sucking my signal up at 35'? Yes, I know it
> depends on frequency. So let's say I'm using 40m most often.
>
> Never used a really high dipole and curious if it's REALLY better than
your
> average ant setup. Is higher that much better if so why? Can't decipher
my
> 1979 ARRL antenna book's explanation on height and ground effect.
>
> Steve/n0tu
>

Date: Tue, 11 Jul 2000 08:16:40 -0700
From: Brian Kassel <bkassel@dancris.com>
To: Tom and Roxy <zikot@erie.net>
Cc: Bill Lazure <n2tpa@juno.com>, qrp-1@lehigh.edu, ka0gkc@ARRL.net,
ka9nzi@ARRL.net, sjolin@swbell.net, n4so@juno.com, k5di@zianet.com,
n1tp@worldnet.att.net,
w1ro@aol.com, jcoote@ci.arcadia.ca.us
Subject: [74846] Re: OP: 10 Meter Operation
Message-ID: <396B3A58.D610CD6C@dancris.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Tom and Roxy wrote:

>
> Why doesn't the QRP-L group just designate days of the month for all of us
> to try and
> other on a particular band/mode?

Folks:

My experience with this type of thing (BIBBA and FYBO are done by the ScQRPions) is that if someone sets it up, many others will follow. It IS more work than one might imagine. If you look at events like the monthly ARS Spartan Sprint for example, you will see that it is promoted quite heavily, has it's own web page etc.

Having said that, it IS very rewarding and worth the effort if someone has the time and energy to commit.

AZ ScQRPions

Brian K7RE

Date: Tue, 11 Jul 2000 07:19:34 -0700 (PDT)
From: Jim Cluett <w1pid@yahoo.com>
To: qrp-l@lehigh.edu
Subject: [74847] Bicycle Mobile with K2
Message-ID: <20000711141934.9996.qmail@web2006.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hey... I worked VE3JC last evening in Delaware, Ontario. John was QRP, bicycle mobile on 20 mtrs with a K2 and an Outbacker Perth. His sig was great and so was his fist. This was a lot of fun. I'm trying to get pictures of his setup. Anyone else work him bicycle mobile?

73 Jim W1PID

Do You Yahoo!?
Get Yahoo! Mail Free email you can access from anywhere!
<http://mail.yahoo.com/>

Date: Tue, 11 Jul 2000 10:44:27 -0400
From: Bill Coleman AA4LR <aa4lr@radio.org>
To: <n0tu@webaccess.net>, <qrp-l@Lehigh.EDU>

Subject: [74848] Re: ANTS: Ground Affect?
Message-ID: <1000611104426.KAA26298@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/11/00 9:12 AM, Steve/n0tu at n0tu@webaccess.net wrote:

>Just wondering if it is worth the effort to raise the height of my CFZ from
>35' to 70'. Will I see a "noticeble" increase in signal strengths?

Would you see different signal strengths -- Yes.

Would they be "noticeable" -- perhaps not.

>I could (with mucho effort) setup my DK9SQ mast on top of a sig corp mast
>and get the apex maybe at 60-70' but the elements would have to slope down
>like a inverted vee. Is this effort going to pay off is several s-units?

No.

>Is
>the "ground effect" really sucking my signal up at 35'?

No. The ground does not "suck up" signals.

The rule of thumb for horizontal antennas (like dipoles) is that the single most important attribute is their height above ground (in wavelengths of the operating frequency). This is more important than the overall length of the antenna.

Your current doublet is barely a quarter wavelength (on 40m) off the ground. You propose to raise it to a half wavelength, although this means you'll go to sloping elements.

Well, this does make a difference. With a low dipole (less than 1/2 wavelength in height), the majority of the transmitted radio energy goes straight up. Think of the ground as a big reflector, and you've got something akin to a two-element antenna pointing up.

As you raise the antenna, you'll start to see less energy going up, and more going to the sides, toward the horizon. At great heights (several wavelengths), you'd see virtually no energy going up (or down), with most heading toward the horizon.

Now, why is this important? Distant radio waves come at your station at a certain angle, called the arrival angle. If your antenna has most of its gain straight up, you won't hear signals coming in at low angles as well. If you have an antenna with gain toward the horizon, you'll hear low

angles well, but high angles will be attenuated.

For local work, the low doublet is probably OK, since arrival angles are high. For longer distance work, low arrival angles predominate. Your antenna probably works well for the guy in the next state, but you probably aren't hearing the guys on the next continent.

Bottom line, if you are just interested in working stations on 40m locally, don't change anything. But if you want to work any DX, or take advantage of marginal openings on 40m, raising the antenna is a good idea.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@radio.org

Quote: "Boot, you transistorized tormentor! Boot!"

-- Archibald Asparagus, VeggieTales

Date: Tue, 11 Jul 2000 09:02:20 -0700
From: Brian Kassel <bkassel@dancris.com>
To: QRP-L <QRP-L@lehigh.edu>, Steve Weber <kd1jv@moose.ncia.net>
Subject: [74849] KD1JV LCD Keyer Mini-Review - Long
Message-ID: <396B450C.9F8CF256@dancris.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gangue:

As some of you may know, I'm a keyboard CW operator. Over the years I have tried lot's of keyboard CW generating devices with mixed results. I've never been able to quite find the unit that I was looking for. Some were too big, too heavy, too expensive or lacked the features that I needed. That all changed a few days ago.

I was one of the folks who jumped into the LCD Keyer offer made by Steve Weber a few weeks ago. In it's present form, this is a semi kit, which includes all of the critical, or hard to find parts for the project, all for only \$15 shipped!

The keyer is unlike any other that I have ever seen over the years. It is based on a microprocessor, and uses a cheap backlit LCD display. The key word here is cheap ;)

It has many unique features. It can be driven by:

Straight key

Any AT type PC keyboard

any RS-232 Serial device, like a terminal, or a terminal emulator

Paddle (of course)

It has 4 memories of 76 characters each.

The speed can be changed by embedded special characters, or if a keyboard is used, by a function key. The speed can be typed in, or two function keys are set up to toggle the speed up or down in 1 WPM increments.

When using these input devices, the LCD displays the CW being sent, as well as status of what you may be doing with the device at any given moment. This is an eye opener if one uses a bug or straight key. Although the CW copy algorithm is quite forgiving, it will immediately show you any moderate flaws your fist may have.

The device can even be used as a "mill copy" with a keyboard or terminal. One just types in the code as it is received and it is displayed on the LCD, along with the text that you are sending out.

There are many more features too, like a built in serial number generator for contests that use that in their exchange etc.

A PC board is available from FAR, and is to be shipped in a few days as I understand. I've got my order in.

I couldn't wait for the boards, so I built one up on one of those PC boards that are usually called proto boards. You know, it has built in strips for power and ground, and smaller strips spaced at .1 inch to allow IC's to be easily used.

I checked out the straight key, paddles and the real kicker, the direct keyboard input. Several months ago I bought 2 of those "mini" keyboards as advertised in the good old All Electronics catalog. Although it needs an adapter to go from it's native PS/2 to the regular 5 pin DIN, I hooked it up. To my amazement, the whole shebang, without the LCD of course, only draws 21 ma! Yep, with 12.5 volts in, and using the 1 amp 5 volt regulator that you supplied, only 21 mills!

I then mounted the board under the keyboard. I put the jacks for all of the inputs, keyer output, etc. on the rear of the keyboard. The whole shebang is now self contained. Heck, it would probably even run off of a 9 volt batter for a reasonable period of time. The whole unit is compact, cheap, does it all, keys virtually any radio even tube types, and is fairly lightweight, Oh yea, and cheap as well.

I just had to let you folks about this, I'm sure many would want to use this keyboard with the keyer. It's very small, but not too

small to do touch typing, cheap at \$9.50 each, and it obviously draws very little juice. Perfect for QRP all around!

It is on page 87 of my current All Electronics catalog "Summer 2000 Catalog # 400. Their toll free number is 1-800-826-5432. I had 2 shipped at a total S/H charge of their usual \$5.00 minimum. Of course, they take plastic too. The catalog number is: KBD-5. They are brand new, still in the original boxes.

I have no connection with All Electronics, or Steve Weber, other than I am a very happy customer.

If you haven't as yet ordered one of these you might contact Steve (kd1jv@moose.ncia.net), as he has a few left. One can only hope that some other entity will pick up where Steve Left off and produce these commercially. It's a winner!

Brian K7RE

Date: Tue, 11 Jul 2000 08:09:02 -0700
From: "Ron Giuntini" <rong@slip.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [74850] Explorer II
Message-ID: <006701bfeb49\$f35c0fa0\$5d10b9d8@rongiuntini>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

What is an unbuilt unopened Oak Hills Explorer II 20Meter rig worth?

Date: Tue, 11 Jul 2000 09:15:43 -0600
From: "Rod, N0RC" <n0rc@qsl.net>
To: <k5di@zianet.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [74851] Re: FLARE!!!!
Message-ID: <002e01bfeb4b\$70d14260\$758611d8@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello:

More likely you heard the effects of July 7th's CME. Here is the text

from today's, Space WX web site, www.spaceweather.com:

"Geomagnetic Activity Alert: Since the shock wave from a July 7th coronal mass ejection (animation) first reached our planet Monday morning, a series of solar wind gusts have buffeted Earth's magnetosphere. Geomagnetic activity was elevated during the nighttime hours of July 10-11 over the Earth's western hemisphere. Faint aurora were reported in eastern Canada and New York. (continued below)

The interplanetary magnetic field in the vicinity of Earth has a substantial southward pointing component at 1500 UT on July 11. This creates a weak point in our planet's magnetospheric defenses against the solar wind. If this condition persists, moderate geomagnetic activity could continue."

Hope this helps.

72/3 Rod, NØRC -- Fort Collins, CO

----- Original Message -----

From: Karl F. Larsen <k5di@zianet.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Tuesday, July 11, 2000 4:54 AM

Subject: Re: FLARE!!!!

>

> I didn't see any report of a flare, but the bands just dropped out.
> Something must have happened. 80 and 40 got VERY quiet. No lightning noise

> until it got to town.

>

> On Mon, 10 Jul 2000, Rod, NØRC wrote:

>

> > Karl et.al.

> >

> > On Mon, Jul 10, 2000 at 04:53:42PM -0600, Karl F. Larsen wrote:

> > >

> > > A massive Flare hit the earth about 1600 Z and all bands are very

> >

> > The data available at: <http://www.sec.noaa.gov/today.html>, "Solar X-ray

> > Flux (5min data)", doesn't seem to show this. There was some "M" stuff

> > but that is all I saw. Am I missing something?
> >
> > 73, Rod
> >
> >
>
> Yours Truly,
>
> - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -
>

Date: Tue, 11 Jul 2000 11:57:52 -0400
From: "George Heron N2APB" <n2apb@erols.com>
To: "NJQRP" <NJQRP@njqrp.org>, "QRP-L" <qrp-l@lehigh.edu>
Subject: [74852] SOP Receiver News 7/11
Message-ID: <005601bfeb50\$c7842320\$555daccf@ire.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks to the fine detective work of Bob Confrey, WA1EDJ and the NOGA QRP Club guys, a small pcb error was found in the audio amp area of the SOP Receiver.

A ground trace is missing on the emitter of transistor Q4 and builders need to make a very simple fix in order for this audio amp to work properly. Locate the 3 pads of Q4 on the bottom of the board (seen also in the diagram on page 15 of the manual as the 3 vertical pads closest to C10), and solder a small piece of scrap wire from the lowest of the three pads to the adjacent ground plane. This fix will enable the Q4 amplifier to work and pass the low-level audio signal from the mixer on to the low pass filter.

Thanks so much to Bob and the NOGA guys for their great assist in working through the board issues. All known errata and corrections are located on the SOP Receiver web page

BTW, we're finishing up a detailed step-by-step photo assembly guide, repleat with scope waveform shots (for those who have scopes), voltage readings and closeups of the components on the board. Will be posted to the website soon and we're printing it and sending to all SOP owners as a little "photo assembly guide book". Should be quite helpful.

For complete and up-to-date SOP Receiver Kit information visit
<http://www.njqrp.org/sop/> or send an email to EMBOT@NJQRP.ORG with SEND SOP

in the body of the text.

72, George N2APB
n2apb@amsat.org
for the NJQRP Club at <http://www.njqrp.org>

Date: Tue, 11 Jul 2000 12:00:24 -0400
From: "Richard E. Robinson" <rerobins@email.uncc.edu>
To: k5di@zianet.com
Cc: qrp-l@lehigh.edu
Subject: [74853] Re: Windom Antenna's
Message-ID: <v03110702b590f35644d7@[152.15.144.71]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Karl F. Larsen, k5di, writes;

> The article says this style of antenna was VERY popular in the
> 1930's. I guess it was cheap.

I was reading recently that Windom held the world QRP miles-per-watt record for many years with a QSO he had with a VK station back in the 20s. I seem to remember his power was around 500mW but I can't remember the band.

Anyone have any other information regarding Windom's QRP operating?

72,

Rick kf4ar

Date: Tue, 11 Jul 2000 10:03:51 -0600
From: "Rod, N0RC" <n0rc@qsl.net>
To: <k5di@zianet.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [74854] Re: FLARE!!!!
Message-ID: <006501bfeb51\$aa8b56c0\$758611d8@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello:

According to the ARRL handbook flares can cause blackout for up to an hour. This is due to the X radiation increasing the D layer ionization level. That's the simple explanation. Chap 21 of the ARRL Handbook has more info.

Another great source of info is: <http://www.sec.noaa.gov/Education/> on this page are links to: <http://www.sec.noaa.gov/info/Iono.pdf> a nice paper on the ionosphere and how it is affected by solar events. And, <http://www.sec.noaa.gov/info/Radio.pdf> a good radio propagation primer. And on of my favorites: <http://www.sec.noaa.gov/primer/primer.html> A great primer on solar phenomena.

Combine all this with Paul Hardens informative postings, and you will be good to go.

73, Rod.

----- Original Message -----

From: Karl F. Larsen <k5di@zianet.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Tuesday, July 11, 2000 5:23 AM

Subject: Re: FLARE!!!!

>

> Sorry but I don't know all the details of the solar effect on our
> HF bands. When nothing works and the receiver is very quiet and the
> antenna is still connected it's a FLARE!!! What are CME particles?
They

CME = Coronal Mass Ejection site above will explain.

72/3 Rod, N0RC -- Fort Collins, CO

Date: Tue, 11 Jul 2000 10:04:12 -0600

From: "Rod, N0RC" <n0rc@qsl.net>

To: "qrp-1" <qrp-1@Lehigh.EDU>

Subject: [74855] NOAA/SEC site updated.
Message-ID: <006601bfeb51\$ab4b9980\$758611d8@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks:

While preparing my responses to the "FLARE" posting I noticed that NOAA has updated/reorganized their SEC web site. Looks nice! Especially useful is the On-Line Data page, <http://www.sec.noaa.gov/Data/index.html>, that indexes and organizes the data available. From there you can access: <http://www.sec.noaa.gov/Data/solar.html> and <http://www.sec.noaa.gov/Data/geomag.html>, Solar and Geomagnetic data sources on line, some near real time.

Really good stuff, if you haven't been there lately, check it out. If you have never been there, it's worth the "cyber-trip".

Enjoy.

72/3 Rod, N0RC -- Fort Collins, CO

Date: Tue, 11 Jul 2000 10:09:07 -0600
From: "Rod, N0RC" <n0rc@qsl.net>
To: "qrp-1" <qrp-1@Lehigh.EDU>
Subject: [74856] Re: FLARE is REAL
Message-ID: <00d201bfeb52\$786e3f80\$758611d8@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Again according to Space WX we did have a CME on July 7th. Earth impact was expected July 11, it came a day early. The increase in solar wind causes Geomagnetic storming. We also had several C and M class flares, assigning what you heard to one of these phenomena I can't be sure of.

Perhaps some else on the list more knowledgeable/experience can shed

some light on the matter.

More interesting than yesterdays event is toady's M/X flare that occurred at approx. 1500UTC see the graph at:
http://www.sec.noaa.gov/rt_plots/xray_5m.cgi

72/3 Rod, NØRC -- Fort Collins, CO

----- Original Message -----

From: Karl F. Larsen <k5di@zianet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Tuesday, July 11, 2000 6:45 AM
Subject: FLARE is REAL

>

> Just listened to WWV (I can hear them now) and we had a FLARE
> yesterday not CMS or lsmft.

>

> Yours Truly,

>

> - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

>

Date: Tue, 11 Jul 2000 11:40:09 -0500
From: "Cla KA0GKC" <ka0gkc@arrl.net>
To: <n0tu@webaccess.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [74857] Re: Ground Affect?
Message-ID: <003701bfeb56\$d0bb16a0\$0200000a@mcg.net>

If lowering your angle of radiation and gaining a better DX signal is what you are after, I think you will notice an improvement, several S-units, probably not. In general, the higher the better. The best way to really find out a good idea of the effect would be to model the antenna on a computer at both heights.

GL and 73 de Cla KA0GKC

----- Original Message -----

From: "Steve/n0tu" <n0tu@webaccess.net>

| Just wondering if it is worth the effort to raise the height of my CFZ from
| 35' to 70'. Will I see a "noticeble" increase in signal strengths?

Date: Tue, 11 Jul 2000 09:43:23 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: QRP List <qrp-l@lehigh.edu>
Subject: [74858] SST-30 Build
Message-ID: <396B4EAB.77CB1F19@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

My current project is building the SST-30 I've had on hand for a couple of years. I will also add the KC-1 which I removed from my Sierra (which now has a KC-2).

I've read the SST archives compiled archived by AL7FS and posted at the G3YCC site some time ago, so I have that general background. But it is a bit short on SST-30 specific info, focusing more on SST-40 and SST-20.

Are there any particular "tricks" needed to get the SST-30 into the 30 meter band? I will install both varactors and a switch; but beyond that ?

TIA.

73, Phil W7OX

Date: Tue, 11 Jul 2000 09:40:30 -0700
From: Mike Gipe <mgipe@reliablemeters.com>
To: n0tu@webaccess.net, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74859] RE: ANTS: Ground Affect?
Message-ID: <F988E2FF74F4D111A61F00A0C949D7A928EDA4@mission>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Steve et al --

The answer is on page 20.3 of the ARRL Handbook 2000.

For example, if you want to reach Europe on 40 meters, look at Table 20.1 to find the optimum elevation angle. For QTH, the number is 14 degrees. This

is the angle above the horizon that you need to launch most of your energy in order to get it to Europe.

Now look at Fig 20.3, which compares a 40 meter dipole at 33 feet with one at 66 feet. For the low dipole, the 'gain' at 14 degrees is $(7.1 - 8) = -0.9$ dBi. For the high dipole, the 'gain' at 14 degrees is $(7.1 - 2) = +5.1$ dBi. The difference is 6 dB or one S-unit. Thus, the high dipole will make your signal four times as strong into Europe.

One S-unit is the difference between working two countries in Europe on 40 meters and working fifteen countries in Europe on 40 meters, QRP.

Mike K1MG

Date: Tue, 11 Jul 2000 12:58:14 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [74860] OPS: Wire Antenna Contest Date?
Message-ID: <74.10416de.269cac26@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Trying to chose a date for the wire antenna sprint. It appears 23 Sept is a good time any comments?

The sprint will be a challenge to use wire only antennas effectively. The amount of wire and the height will be limited (sort of an equalizing factor) forcing you to come up with the most effective antenna(s) for 20/40M ops. Complete set of rules will be published when we get the date established.

To give you a rough idea of the limits/rules:

(1) Total wire length 200 ft including feed (remember twin feed uses twice the wire so 40 ft of twin feed is 80 feet leaving 120 for antenna(s)) radials come off the 200 ft also as does ground wire, etc

(2) You can use multilple antennas

(3) Max height of any part of the antenna is 40 ft above the ground

(4) Bonus points will be awarded if no tuner is used and making contacts on both bands

(5) It will be probably be 4 hours

(6) A prize will probably be awarded based upon a random drawing from the folks submitting logs (so you don't need a lot of contacts to win

(7) You can use masts etc as long as they are not part of the radiating portion of the antenna

So you have lots of time to get your thinking caps on. Verticals? loops? beams? windoms?ALAN KB7MBI

and yes it is QRP (SMILE)

Date: Tue, 11 Jul 2000 12:07:40 -0500
From: "Rick Shindley" <Ricks@abac.com>
To: <qrp-1@lehigh.edu>
Subject: [74861] Windom question
Message-ID: <LPBBIFIPEOMMPPEKEFPIEBECAAA.Ricks@abac.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Greetings all. Thgis is my first post.

I have a new Carolina Windom 80 that I would like to drive from buried coax. The antenna requires a tuner and recommends a fixed length of coax. Since a tuner is required the coax must be reactive. Wouldn't voltage nodes on the shield of the buried coax be attenuated by capacitive coupling to the earth, making the feedline lossy?

On a second note; after buying the Windom 80 I discovered an article explaining that matching the horizontal feedpoint Z with a balun to the vertical section is a near impossibility. The Z is dependent on so many things. The author dismissed the antenna as being "no better than a dipole". He had a lot of math to prove it. Then I began feeling good about a G5RV antenna as an ideal "city" all-band HF antenna, but then I saw the RadioWorks web site today that indicated the Windom is better. What is a simple person to believe?

Rick
KC00V (K2 #1360 under construction)

Date: Tue, 11 Jul 2000 11:09:08 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: "Rod, N0RC" <n0rc@qsl.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74862] Re: FLARE is REAL
Message-ID: <Pine.SUN.4.10.10007111047470.19680-1000000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 11 Jul 2000, Rod, N0RC wrote:

> Again according to Space WX we did have a CME on July 7th. Earth
> impact was expected July 11, it came a day early. The increase in
> solar wind causes Geomagnetic storming.

Good work, Rod. Your explanations are very accurate.

The flare on July 7th was also accompanied by a CME (coronal mass ejection) which is a shock wave of solar particles, blowing outward from the sun, and in this case, towards the Earth. The shockwave hit the earth on 10 JUL at 0640 UTC, triggering geomagnetic storming. The solar wind went from about 380 km/sec (about normal) to nearly 500 km/s in a matter of minutes.

We are currently in a GEOMAGNETIC STORM ... with the latest K index being 5 (it has been 4-5 all day so far). This is minor storming in the middle latitudes and major storming "up north." This will persist the rest of the local day in North America.

D-layer absorption is also quite high right now, with 3 db affects up to 20M; 5dB on 40M and a whopping 15dB on 75/80M.

This can be seen at: www.sec.noaa.gov/rt_plots/dregion.html

The shockwave can be viewed on the Univ. of Maryland proton monitor at: <http://umtof.umd.edu/pm/>

Note the shockwave on the plot "Vsw km/s" and also at 0300 11 JUL, another shockwave of high particle density hit, shown on the plot "Density 1/cm^3" The density shock is what triggered the current level of geomagnetic storming.

> We also had several C and M
> class flares, assigning what you heard to one of these phenomena I
> can't be sure of.

Yes, of particular interest is today's X.1 flare that occurred at 1200UTC 11 JUL (0600 this morning, MDT). It is favorably positioned on the sun's surface that any resulting shockwave will likely hit the earth, and possibly quite hard, around 14 JUL. Later today, data measurements will be available to show the extent of the CME from this flare. The shockwave has been estimated at 1200 km/sec or more so far. This could be a 700-800 km/sec shockwave by the time it hits the earth on Friday, which will undoubtedly cause major to severe geomagnetic storming and auroral activity. Stay tuned on this one.

> Perhaps some else on the list more knowledgeable/experience can shed
> some light on the matter.

Rod, you got the IMPORTANT stuff right.

The current geomagnetic storming is caused by the flare on 7 JUL. Geomagnetic storms are caused by the slower shockwave that hits us 2-3 days after a flare. You described that perfectly.

And DURING a flare (like right now -- this is a long duration event), you get the speed-of-light stuff that causes high D-layer absorption on the lower frequencies, and all sorts of weird phenomenon on the higher frequencies as the E and F layers are moving all around, their density changing etc. And you described that perfectly.

We are currently under the influence of TWO different phenomena, the geomagnetic storm triggered by a flare 3 day AGO ... and the solar storm (higher frequencies) ongoing RIGHT NOW. Rod's brief description in his post shows he clearly understands "what's happenin'" and was able to differentiate the two different effects. As did a couple others of you. That's good work. I'm proud of ya!

Looks like the rest of the week could be rough on HF.

72, Paul NA5N

Date: Tue, 11 Jul 2000 10:10:53 -0700 (PDT)
From: Steve Yates <aa5tb@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74863] PROP: RE: "FLARE!!!!"
Message-ID: <20000711171053.27580.qmail@web3005.mail.yahoo.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

It is quite common for solar flares to cause HF blackout conditions during the middle of the day. The flare itself doesn't hit the earth but as already mentioned, the increased ultraviolet energy due to the flare does. This causes a substantial increase in D-layer ionization which in turn causes the LUF (Lowest Usable Frequency) too increase, sometimes above the MUF (Maximum Usable Frequency). This condition seldom last more than about an hour (in my experience) unless it has been a really big flare. This effect of course travels at the speed of light so it occurs at the same time that we see the flare.

CMEs (Coronal Mass Ejection) sometimes occur with flares and sometimes without (coronal holes). Since this stuff contains mass it travels somewhat slower and its velocity can vary but usually arrives 2-3 days after the visible observation. Its effects have already been mentioned (geomagnetic storms, aurora, absorption, etc.)

I'm sure Karl did witness the effects of a solar flare but this mid-day blackout condition is more common than some may believe. I used to be a HF shore station operator/tech (WFE) and blackouts seemed to occur quite regularly during sunspot cycle peaks.

Mr. Sol (Paul, NA5N) has provided us with tremendous valuable information on this subject so I know that this post is a rehash but I thought I would pass along my experiences.

=====

73,

Steve Yates - AA5TB

Fort Worth, TX - EM12gs

<http://www.geocities.com/aa5tb>

aa5tb@arrl.net

Do You Yahoo!?

Get Yahoo! Mail Free email you can access from anywhere!

<http://mail.yahoo.com/>

Date: Tue, 11 Jul 2000 13:25:46 -0400
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>
To: qrp-1 <qrp-1@Lehigh.EDU>
Subject: [74864] Re: FLARE is REAL
Message-ID: <004801bfeb5d\$0d8ccb40\$2d0a05cc@rochester.com>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

> We are currently under the influence of TWO different phenomenons,
> the geomagnetic storm triggered by a flare 3 day AGO ... and the
> solar storm (higher frequencies) ongoing RIGHT NOW. Rod's brief
> description in his post shows he clearly understands "what's
> happenin" and was able to differentiate the two different effects.
> As did a couple others of you. That's good work. I'm proud of ya!
>
> Looks like the rest of the week could be rough on HF.

Paul,

Howbout 6 & 2? I'm not equipped, but a friend has been having a ball on 6M
this year. Should I give him a "heads up"?

Dave

Date: Tue, 11 Jul 2000 10:29:32 -0700 (PDT)
From: Steve Yates <aa5tb@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [74865] Re: OPS: Wire Antenna Contest Date?
Message-ID: <20000711172932.27647.qmail@web3001.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

> (1)Total wire length 200 ft including feed (remember
> twin feed uses twice the
> wire so 40 ft of twin feed is 80 feet leaving 120
> for antenna(s)) radials
> come off the 200 ft also as does ground wire, etc

If we use coax should we multiply one of the two
conductors by $2 \times \pi \times \text{radius}$?

; -)

=====

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://www.geocities.com/aa5tb>
aa5tb@arrl.net

Do You Yahoo!?
Get Yahoo! Mail Free email you can access from anywhere!
<http://mail.yahoo.com/>

Date: Tue, 11 Jul 2000 10:32:43 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [74866] Re: WRTC Contest Atnennas
Message-ID: <Pine.GSO.4.10.10007110846060.25189-1000000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 10 Jul 2000 ARDUJENSKI@aol.com wrote:

> Those of you who read the post on the WRTC contest All teams used the same
> antenna setups with yagis on the upper HF bands and a WINDOM was chosen for
> 80 and 40M ops. For the antenna specialists out there is there a technical
> reason for chosing the WINDOM over dipoles, doublets, etc for a contest like
> this?

Hi Alan and all,

I'd like to point out something that might help people
see what was being done.....

During the IARU contest this year, there was a "sub" or
"second" contest being run. There were 53 stations in
S5 (Solvenia) that had two operators, each of which was
picked based on past contest preformance.

This "sub" contest is called WRTC and it's goal is to have
the top contest operators in the world compete against
each other from the same area with equal stations.

To that end, all 53 stations were equiped with as close to equal antennas as they could get. All 53 stations have triband yagis and if I remember right, they are at about 40'.

The choice of the windom seems to be because many already had and used them and they were easy to put up in the cases where there we not any.

It's my understanding that a single windom was used for both 40m and 80m. If antennas like dipoles were used, they would have had to have one for each of the two bands.

All 53 stations ran a max of 100w output.

(I can double check to be sure that the same antenna was used on both 40m and 80m when the teams get back here, if anyone wants to know for sure.)

More info is at:

<http://wrtc2000.bit.si/>

<http://www.ncjweb.com/index.php3?leftcol=wrtcmenu&rightcol=wrtc2000b>

One interesting side note.....

The winners this year were K1T0/N5TJ. This team also won the last WRTC event, which was in 1996.

Third place went to K1DG/K1AR, who were the winners in 1990.

The top operators always seem to be up at the top! :-)

Hope this helps shed some light on the WRTC/IARU event and why all 53 stations had the same antennas.

OK, back in my hole....

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@qsl.net....SOC #2.....Nevada....NRA LIFE....
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....
....Visit my Home Page.....<http://www.qsl.net/ku7y/>....

Date: Tue, 11 Jul 2000 10:43:57 -0700
From: Mighty Mik <mightymik2@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [74867] Re: SM protoboards
Message-ID: <4.3.2.7.0.20000711104150.00a95bf0@mail>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 05:57 AM 7/11/00 -0500, you wrote:
>Maybe you could use a silk screen..or stinzel
>Paul kd5dbo

Too messy for just one board.

Date: Tue, 11 Jul 2000 10:46:13 -0700
From: Mighty Mik <mightymik2@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [74868] Re: SM protoboards
Message-ID: <4.3.2.7.0.20000711104407.00a8f320@mail>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 01:20 AM 7/11/00 -0700, you wrote:

>>What i'd like to see is maybe a set of rubber stamps in various sizes...S08
>>and MS08 come to mind... that would allow me to print and etch relatively
>>small boards. Proto areas could be another stamp.

>

>Silk-screen printing often used to be used for PCB production many years
>ago, and should work better than rubber stamps. Unfortunately, I can't
>remember the details, although I worked in a PCB dept. using the process,
>for a couple of weeks. It was nearly 40 years ago.

>

>73, Leon

>

>--

>Leon Heller, G1HSM

>Tel (work): +44 1327 357824 Tel (mobile): +44 79 9098 1221

>InfraRed Integrated Systems Ltd., Towcester Mill, Towcester, Northants.,

>NN12 6AD, United Kingdom.
>Email:leon_heller@hotmail.com
>Web page: <http://www.geocities.com/SiliconValley/Code/1835>

For more than one, yes. For one only ... i think i wanna try the stamps,
after all, what if it doesn't work the first time?

Date: Tue, 11 Jul 2000 12:52:51 -0500
From: "George , W5YR" <w5yr@att.net>
To: Ricks@abac.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74869] Re: Windom question
Message-ID: <396B5EF3.63FEF22A@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Neither . . .

72/73, George
Fairview, TX 30 mi NE Dallas in Collin county QRP-L 1373
Amateur Radio W5YR, in the 54th year and it just keeps getting better!
R/C since 1964 - AMA 98452 RVing since 1972 Kachina #91900556
(12/99)

Rick Shindley wrote:

Then I began feeling good about a
> G5RV antenna as an ideal "city" all-band HF antenna, but then I saw the
> RadioWorks web site today that indicated the Windom is better. What is a
> simple person to believe?
>
> Rick
> KC00V (K2 #1360 under construction)

Date: Tue, 11 Jul 2000 12:56:39 -0500
From: "George , W5YR" <w5yr@att.net>
To: ku7y@dri.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [74870] Re: WRTC Contest Atnennas
Message-ID: <396B5FD7.D6A0036C@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Ron, in past WRTC competitions, all stations used the same make/model of radio. I think that the 1990 affair used the IC-765.

Any info on what the various stations used this time?

72/73, George

Fairview, TX 30 mi NE Dallas in Collin county QRP-L 1373
Amateur Radio W5YR, in the 54th year and it just keeps getting better!
R/C since 1964 - AMA 98452 RVing since 1972 Kachina #91900556
(12/99)

Monte Stark wrote:

>

>

> All 53 stations ran a max of 100w output.

Date: Tue, 11 Jul 2000 14:04:42 EDT

From: NB6M@aol.com

To: qrp-l@lehigh.edu

Subject: [74871] Modification of KAMPlus TNC for PSK-31 Keying

Message-ID: <c1.4f6445c.269cbbba@aol.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

Since I have a KAMPlus TNC and MFJ-1272BYH Mike/TNC switch box that I use in conjunction with a variety of rigs, both QRP and QRO, for Pactor, RTTY, and keyboard CW operation, and wanted to get on PSK-31, I have been pondering the installation of the transmitter keying circuitry and transmitter audio input circuitry so as to make use of the cabling between computer, TNC, and rig that already exists.

Receiver Audio was a snap. All that required was a two mini phone jack to single mini phone plug adaptor plugged into the external speaker jack at the back of the rig, so that one receive audio line could go to the switch box for the TNC, and the other could go to the Mike input on my laptop, to provide audio for the Digipan program.

For transmitter audio, I wired a 3 circuit jack into the rear of the MFJ-1272BYH switch box, paralleled the stereo audio lines and installed the 40 DB resistive attenuator pad (described in the help file for Digipan) at the rear of the jack, ran the audio to a SPDT switch that I installed in the front of the switch box and wired so that it selects audio either from the

TNC (for pactor, rtty, etc operation) or from the laptop (for PSK-31).

After checking the circuit diagram and description of connections for the KAMPlus, I discovered that neither the KAMPlus or either the KaGOLD or Airmail programs I use with the KAMPlus make use of the DTR line in the cable from the computer to the TNC. That line is paralleled with the DSR line on the circuit board inside the KAMPlus. The Digipan PSK-31 program can be set up to use either the RTS or DTR line for sending a keying signal to the transmitter switching circuitry.

Armed with that information, it was easy to remove the circuit board from the TNC, cut the circuit board trace where the DTR line joined the DSR line, solder the transmitter keying transistor and its base resistor and diode (described in the help file for the Digipan program) on the bottom of the circuit board itself, between the PTT line going to the rig, (Pin 3 of the 8 pin DIN HF Radio jack on the TNC) , and ground, and wire in a SPST switch between the DTR line and the base resistor of the transmitter switching transistor.

The switch was necessary between the DTR line and the base resistor of the transmitter keying transistor because both the KaGOLD program and the Airmail program cause a positive voltage to be applied to the DTR line from the computer, which means that when I used those programs, the transmitter would be keyed all the time. With the switch in place, and turned off, operation is normal, as those two programs key the transmitter through the RTS line.

So, DTR switch "on" for Digipan, and no power is needed to the TNC, since the keying transistor gets its collector voltage from the rig, on the PTT line.

For Normal TNC related operation, power "on" and DTR switch "off". Works very well, and makes use of cabling already installed for operating in other digital modes.

Have been on PSK-31 running low power for a few days now, racking up QSOs. Lots of fun and an easy mode to operate on. Makes for a nice, occasional change from my normal CW operation and is a good QRP mode with lots of activity.

72

Wayne NB6M

Date: Mon, 10 Jul 2000 22:03:15 -0500
From: Robert McAtee <w5tnj@camalott.com>

To: qrp-1@Lehigh.EDU
Subject: [74872] **0T** line topic
Message-ID: <3.0.3.32.20000710220315.007bcac0@mail.camalott.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Right on George!!!!,(W5YR). Let's just assume John had a bad hair day.
==Mac== AG5F Abilene Amateur Radio Club
...<http://www.camalott.com/~w5tnj/>

Date: Tue, 11 Jul 2000 11:14:08 -0700 (PDT)
From: Monte Stark <ku7y@dri.edu>
To: "George , W5YR" <w5yr@att.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [74873] Re: WRTC Contest Atnennas
Message-ID: <Pine.GSO.4.10.10007111103440.25189-100000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 11 Jul 2000, George , W5YR wrote:

> Ron, in past WRTC competitions, all stations used the same make/model of
> radio. I think that the 1990 affair used the IC-765.
>
> Any info on what the various stations used this time?
>

George and all,

Here are just a couple of items from the rules:

Logging: We strongly recommend computer logging. In this case, only software supplied by the Organizer shall be used. We will supply logging software from K1EA (CT), N6TR (TR), EI5DI (SDW) and K8CC (NA). Special versions of all mentioned programs, that support WRTC2000, will be uploaded on our web page shortly. All teams must submit their computer disks to Referee within fifteen (15) minutes after the contest ends.

and:

1. The Organizer will make best effort to provide largest possible selection of quality transceivers. However, we strongly encourage

all teams to bring their own equipment, this means everything except the coax and antennas.

Looks like they could whatever they wanted to bring, just had to limit it to 100w.

Each team had a Referee on site during the whole contest to insure that the power level was observed, and that there was nothing else going on that was not OK.

It's interesting to go read the full rules. No computer control of the rigs was allowed. You could use the logging program to send the CW and you could use a voice recorder (or whatever it is that those things are called!) to do the calling on SSB. But NO frequency control of the radio by the computer.

This means that when they changed bands or modes they had to be sure to remember to also change the computer! :-)

cul,

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@qsl.net....SOC #2.....Nevada....NRA LIFE....
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....
....Visit my Home Page.....<http://www.qsl.net/ku7y/>....

Date: Tue, 11 Jul 2000 13:44:43 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-1@lehigh.edu
Subject: [74874] AT Alert, Maine
Message-ID: <200007111822.0AA26630@wolf.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Hi Gang,

The Wx forecast for this weekend sounds promising, (although the weekend forecast is always optimistic, as not to scare off the tourists), so I plan to sneak across the state line into Maine. I'll

be going to Grafton Notch and ascend Baldpate mountain, along the AT.
Haven't decide if I'll go Sat or Sun, will let you all know Fri
afternoon, once we see the latest forecast.

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Tue, 11 Jul 2000 13:31:30 -0500
From: "Tom Whiteside" <n5tw@igg-tx.net>
To: "QRP-L" <QRP-L@Lehigh.EDU>
Subject: [74875] Fox: Hunt details for Thursday's hunt
Message-ID: <005b01bfeb66\$3bb56b40\$cf21f0cd@g517v>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Howdy - Advanced notice for a rare chance to chase a Pesky Texan for a
change... Fox is on the menu for this Thursday at 0100Z (Yes, that is
technically Friday in Zulu time...) Hope to work many of you!

I will operate with the usual drill - hanging out near 14060 (probably just
above unless there is QRM) and will listen away from my calling frequency
unless we get down to a low data rate... Let's try to keep my frequency
clear to speed things up... Feel free to call again if you do not hear me
come back quickly - it is easy to get alphabet soup with a bunch of hounds
baying at the same time... Here is how I plan to do things: (I'm spelling
this out to encourage newbies...)

CQ FOX DE N5TW (hopefully bedlam now commences - I'll send something back
like:

N1FN 559 TX TOM 1474 N1FN BK (Note I will send the call at the end since
calling may clobber it the first time.
He will respond with something like:

559 CQ ET 153 If I got all that, I'll send:

72 N5TW FOX (and the process repeats)

I will be using a K2 (serial # 1389) running 5W to 3 beams stacked on a 130
ft tower. One will point North with the others NE and NW - this will give

good coverage and my friends in FL are usually loud with this setup... My plan is to feed all antennas at the same time but I may switch antennas depending on conditions - of you hear me jump up and down in level, this is probably what is going on... It helps me if you send your state before your name so I can switch antennas earlier if copy is tough...

I'm excited to have the chance to do this! Have almost stopped having flashbacks from the last time... Hope to work you Thursday evening!

Tom Whiteside
N5TW Georgetown, TX

Date: Tue, 11 Jul 2000 11:32:04 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: Ricks@abac.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [74876] Re: Windom question
Message-ID: <396B6824.8A85F079@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Rick Shindley wrote:

>
> On a second note; after buying the Windom 80 I discovered an article
> explaining that matching the horizontal feedpoint Z with a balun to the
> vertical section is a near impossibility. The Z is dependent on so many
> things. The author dismissed the antenna as being "no better than a
> dipole". He had a lot of math to prove it. Then I began feeling good about a
> G5RV antenna as an ideal "city" all-band HF antenna, but then I saw the
> RadioWorks web site today that indicated the Windom is better. What is a
> simple person to believe?
>

All things being equal (e.g., height), I would expect no big performance difference between the G5RV and your Windom .. except the Windom should give you a longer radiator (135 ft, if I recall correctly) vs. 105 ft. That shorter length is perhaps why the G5RV is viewed as better for city use: Easier to fit on a lot.

I have found the G5RV a bit tricky to load on some bands (e.g., 30 meters); I have not used a Windom since the WARC bands came along.

"No better than a dipole" is likely true .. but not all that bad.

Phil

Date: Tue, 11 Jul 2000 11:48:25 -0700
From: Dave Barrett <DBarrett@creo.com>
To: "'QRP-L'" <qrp-l@Lehigh.EDU>
Subject: [74877] OT..... Switchable Attenuator Project
Message-ID: <BFEFC3386986D2119C0800A0C99B5DE601772FE7@msgcreo3.creo.bc.ca>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hi All,

Some years back a Ham did a project detailing the building of an attenuator that was switchable, if I remember rightly it was 1db,2db,3db,5db,10db,and three 20db settings. It was a very neat project in a tiny milled out of solid aluminium container, using tiny toggle switches and 1/8th watt carbon resistors. Unfortunately I can't remember (good memory just not very long anymore :-) who did it and or where I might find the article.....a search on QST showed up nothing much, I would like the dimensions of the milled out box, I guess I'll likely end up just doing it the hard way :-) Anyone with info please email off line so as to save bandwidth.

Thanks

Dave Barrett VA7DB (Ex VE7PCC)
Vancouver BC Canada

Date: Tue, 11 Jul 2000 19:56:58 -0700
From: "M05aaa00" <merryprankster@cwcom.net>
To: <DBarrett@creo.com>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [74878] Re: OT..... Switchable Attenuator Project
Message-ID: <019501bfebac\$d9610660\$36cb2cc3@houseqrx7neuap>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If you look on anchor supplies web site they have a switchable attenuator at under 10 UPK pretty big too made from hallelujah

Date: Tue, 11 Jul 2000 12:14:07 -0700
From: "n6wg:First n6wg:Last" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>
Subject: [74879] Re: ANTS: Ground Affect?
Message-ID: <000301bfeb6c\$301d86e0\$bdddfc9e@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Steve

I've been modeling EDZ antenna for FD, and can give you some info.
Increasing height gets you a bit more gain in the favored direction, and a
lower takeoff angle.
The sidelobes of an EDZ change a bit also. As I recall, they get a bit
smaller.

Depending on what you are trying to do, the lower takeoff angle might be the
most significant benefit. It would improve your dx prospects. Not so sure
how it would affect your domestic QSOs, however. That's a function of skip
angles.

Here my lower dipoles all depend on NVIS propagation for daytime QSOs.

73, Bob N6WG

Date: Tue, 11 Jul 2000 12:16:14 -0700
From: "n6wg:First n6wg:Last" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>
Subject: [74880] Re: Why elevate the antenna?
Message-ID: <000301bfeb6c\$7bf03b80\$bdddfc9e@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Allan

I saw that article a while back. Interesting. I'd try it if I had enough
real estate.

If you do give it a whirl, post some results for the curious.

73, Bob N6WG

Date: Tue, 11 Jul 2000 15:53:59 -0400
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.edu>
Subject: [74881] Upcoming ARRL Board of Directors meeting
Message-ID: <125490A005E3D3118C9C00805FC743CCB2C005@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

The ARRL Board of Directors will be meeting in Hartford, CT next Friday and Saturday, 7/21 and 7/22. Some of the Directors head this way as early as Tuesday, for various staff and committee meetings. If you have any input that you would like your Director to consider before the Board meeting, send it promptly. (I have given Tom Frenaye my views on QRP DXCC a few times now. :-)).

You can contact your director using the contact info in QST or at <http://www.arrl.org/divisions>.

73,
Ed Hare, W1RFI
ARRL Laboratory
225 Main St
Newington, CT 06111
Tel: 860-594-0318
FAX: 860-594-0259
Internet: w1rfi@arrl.org
ARRL Web: <http://www.arrl.org>
ARRL Technical Information Service: <http://www.arrl.org/tis/>

Date: Tue, 11 Jul 2000 11:57:31 -0800
From: Jim Larsen AL7FS <al7fs@pobox.alaska.net>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [74882] QRP-L CD Version 3 - Weekly Friday Repost (long)
Message-ID: <396B7C2B.5BF89961@pobox.alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Greetings from the QRP-L CD Providers, now communicating in one consolidated message to keep traffic on QRP-L to a minimum. We will post once a week until the end of July and then maybe once a month for a while.

QRP-L CD Version 3.0 CD-ROM (Editor - WB8RCR, John McDonough)
(Version 3.1 now has the SPRAT QRP Magazine Index from Issue 001 to 103
as well as all of the major files from the G3YCC (SK) Website.)

Overview from the QRP-L CD:

Well, it's finally here! Version 3 of the QRP-L CDRom, and since version 2, we've had a lot of changes on the list, the startup of QRP-F, a much more active and aggressive QRP ARCI, and a new millennium! This CD contains the entire QRP-L archive for the 20th century, as well as a few months of the 21st. (1993 through sometime in April 2000)

Much of the material for this one is the same as Volume 2, except, of course, for the updated archives. If you have anything you can contribute, please send it along to WB8RCR <mailto:wb8rcr@arrl.net> for the next release. I'm sure your fellow QRPers would appreciate your sharing.

WB8RCR has included the latest version of QSLMaker - And also in the QSLMaker directory is a set of new background bitmaps. These are especially for ARCI members (QRP Amateur Radio Club International) who want to display the ARCI logo on their card.

There are links to the HTML directories and the QRP-L archives.

** QRP-L Archives
** Chuck Adams, K7QO, pictures
** Glen Leinweber, VE3DNL, Elmer101 Web Page
** KB0HQ's Pixie and SMiTe files
** NEC2 - The NEC antenna design program
** PCPGMS - Misc Utilities
** RUFZ - The RUFZ morse code program
** SPICE - Spice modeler and many of the models included
** WB8RCR - QSLmaker and some graphics - The latest version
** and much more

=====

How to get your own Version 3 copy of the QRP-L CD.

=====

There are four people ready to take orders for the QRP-L CD Version 3, dated May 7, 2000.

They can supply a blank CD or accept one from you.

Plan A: Your blank CD

Put a blank CD in one of those plastic sleeves (i.e. don't send the jewel box). Put this CD in a sturdy cardboard mailer. Put your mailing address on the mailer. Put postage on the mailer. (Typical postage is 77 cents in the USA, though if you use a bubble mailer or one of those thick padded mailers it might be more.) Now put this mailer into a larger (of course) mailer addressed to one of the Providers (see below). Write your name AND email address on a small slip of paper and enclose it as well.

Plan B: Provider provides the blank CD

Send a check for \$10 USD payable to one of the providers (see below). \$10 USD will cover the QRP-L CD for International as well as domestic. Please enclose a self-adhesive mailing label with your mailing address. Write your name AND email address on a small slip of paper and enclose it as well. If you don't have a self-adhesive label just put your mailing address neatly on a piece of paper so that we can cut out and tape to the package.

Send your package or envelope to:

Jim Larsen, AL7FS mailto:al7fs@pobox.alaska.net
3445 Spinnaker Drive
Anchorage, AK 99516-3424 OR

Michael Bower, N4NMR mailto:bowerm@ix.netcom.com
43304 Wayside Circle
Ashburn, VA 20147-4621 OR

Bob Patten, N4BP mailto:n4bp@bc.seflin.org
2841 N.W. 112 Terrace
Plantation, FL 33323 OR

Michael Gipe, K1MG mailto:mgipe@reliablemeters.com
12770 Lika Ct
Saratoga, CA 95070

Upon receipt, We will email you to confirm receipt of your package--IF you remembered to enclose your email address :-)

Plan C: You can use PayPal and we provide blank CD.

PayPal Information - Three of the providers are set up for PayPal -
AL7FS, N4NMR and K1MG.

PayPal accounts are now available that the Providers can use to receive
payment by MasterCard or Visa. PayPal is available at
<http://www.PayPal.com>

If you would like a new PayPal account you can use these links to get
there.

AL7FS as referral:

<https://secure.paypal.com/refer/pal=al7fs%40pobox.alaska.net>

N4NMR as referral:

<https://secure.paypal.com/refer/pal=bowerm%40ix.netcom.com>

K1MG as referral:

<https://secure.paypal.com/refer/pal=mgipe%40reliablemeters.com>

Feel free to use one of our address as the referring party if you do set
up a new account. :-)

Use ONE of the below email addresses as the PayPal account numbers for
the transmission of the \$10 USD.

	Pay Pal Account numbers
Jim Larsen, AL7FS	al7fs@pobox.alaska.net

Michael Bower, N4NMR	bowerm@ix.netcom.com
----------------------	----------------------

Michael Gipe, K1MG	mgipe@reliablemeters.com
--------------------	--------------------------

If you choose to use PayPal you need to email the Provider also with
your information as follows:

General Guidelines

Email Subject:

** QRP-L CD order from (your call) via PayPal

Text:

** Repeat your PayPal email address

** Provide your mailing Name and address

** Add any other comments on the bottom of the message as needed.

International Mailings

It looks like the package will weigh less than 3 ounces. The \$10 USD
will cover the International postage just fine.

Therefore, \$10 USD will cover the QRP-L CD for International as well as domestic USA.

Upon receipt or Check or PayPal or blank CD, the Provider will email you to confirm receipt and suggest how long it will take to get the CD off to you.--IF you remembered to enclose your email address :-)

Websites with the QRP-L CD information are available at:

<http://www.qsl.net/al7fs/> OR

<http://www.qsl.net/n4nmr/qrp-lcdvol3.html/>

Questions? Send email to me at <mailto:AL7FS@pobox.alaska.net> or to any of the other Providers. Please make the subject line: QRP-L CD Question from (your callsign).

73, Jim, AL7FS
on behalf of AL7FS, N4NMR, N4BP and K1MG

--
Jim Larsen, AL7FS <http://www.qsl.net/al7fs/>
Anchorage, Alaska <mailto:al7fs@pobox.alaska.net>
QRP ARCI #6754 Check out <http://www.qrparci.org/>
=====

Date: Tue, 11 Jul 2000 15:58:57 -0400
From: Bill Coleman AA4LR <aa4lr@radio.org>
To: <ARDUJENSKI@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [74883] Re: WRTC Contest Atnennas
Message-ID: <1000611155857.PAA18769@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 7/10/00 6:05 PM, ARDUJENSKI@aol.com at ARDUJENSKI@aol.com wrote:

>For the antenna specialists out there is there a technical
>reason for chosing the WINDOM over dipoles, doublets, etc for a contest like
>this?

The objective here isn't to provide an antenna that performs particularly well, but to provide an antenna with nearly identical performance at all 50-odd sites.

The windom is a simple, inexpensive antenna that performs adequately for

both 80 and 40 meters. If they used dipoles, they'd probably have to have one each for 80 and 40.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@radio.org
Quote: "Boot, you transistorized tormentor! Boot!"
 -- Archibald Asparagus, VeggieTales

Date: Tue, 11 Jul 2000 16:12:42 -0400
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: "'DBarrett@creo.com'" <DBarrett@creo.com>, Low Power Amateur Radio Discussion
<qrp-l@Lehigh.EDU>
Cc: "Alvareztorres, Al, AA1D0" <aalvareztorres@arrl.org>
Subject: [74884] RE: OT..... Switchable Attenuator Project
Message-ID: <125490A005E3D3118C9C00805FC743CCB2C008@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

The QST/QEX search engine gave me quite a few hits on "attenuator". See
<http://www.arrl.org/members-only/qqnsearch.html>.

If memory serves, that milled-out box was a Handbook project.

I will see if I can talk the ARRL Lab TIS guy into putting up a "Test
equipment" page on the web site. :-) I will see if he also knows what
Handbook the attenuator may have appeared in.

73,
Ed Hare, W1RFI
ARRL Laboratory Supervisor
225 Main St
Newington, CT 06111
Tel: 860-594-0318
FAX: 860-594-0259
Internet: w1rfi@arrl.org
ARRL Web: <http://www.arrl.org>
ARRL Technical Information Service: <http://www.arrl.org/tis/>

-----Original Message-----
From: Dave Barrett [mailto:DBarrett@creo.com]
Sent: Tuesday, July 11, 2000 2:48 PM

To: Low Power Amateur Radio Discussion
Subject: OT..... Switchable Attenuator Project

Hi All,

Some years back a Ham did a project detailing the building of an attenuator that was switchable, if I remember rightly it was 1db,2db,3db,5db,10db,and three 20db settings. It was a very neat project in a tiny milled out of solid aluminium container, using tiny toggle switches and 1/8th watt carbon resistors. Unfortunately I can't remember (good memory just not very long anymore :-)) who did it and or where I might find the article.....a search on QST showed up nothing much, I would like the dimensions of the milled out box, I guess I'll likely end up just doing it the hard way :-)) Anyone with info please email off line so as to save bandwidth.

Thanks

Dave Barrett VA7DB (Ex VE7PCC)
Vancouver BC Canada

Date: Tue, 11 Jul 2000 16:40:45 -0400
From: "Ron Polityka" <wb3aal@talon.net>
To: ".G-QRP Club" <GQRP@egroups.com>, ". QRP-L" <qrp-l@Lehigh.EDU>, ". NJ QRP-L" <njqrp@njqrp.org>, ". Eastern PA QRP Club" <epaqrp-l@Lehigh.EDU>
Subject: [74885] TAC Contest Logs Due
Message-ID: <000901bfeb78\$4af2eb20\$31e508cf@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

I have been busy for the past couple of days and I forgot to make a deadline announcement. So I am going to extend the deadline for the TAC Contest log submission.

Logs are due by mail or e-mail no later than

July 14, 2000 @ 11:59 PM EDT.

Thanks!

72 & 73
Good DXing

Ron Polityka
de N3EPA
n3epa@talon.net

vvv Eastern Pennsylvania QRP Web Page vvv
<http://www.n3epa.org>

Eastern Pennsylvania QRP Club Call
N3EPA E-mail address: n3epa@talon.net

Date: Tue, 11 Jul 2000 15:03:12 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-1@lehigh.edu, n5tw@igg-tx.net
Subject: [74886] FOX Re: Hunt details for Thursday's hunt
Message-ID: <396B3730.7200.B3D971@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

>>Here is how I plan to do
things: (I'm spelling this out to encourage newbies...)
CQ FOX DE N5TW (hopefully bedlam now commences - I'll send something back
like: N1FN 559 TX TOM 1474 N1FN BK <<

Here's a thought, Tom-- on the theory that a picture is worth a kiloword,
and a live demonstration is worth a thousand pictures, why don't we
recreate that very qso as an example, right at 0100Z? I'd be delighted to
participate in such an fine educational program.

Marshall Emm, N1FN
Milestone Technologies, Inc.
(303) 752-3382
<http://www.mtechnologies.com>

Date: Tue, 11 Jul 2000 15:59:53 -0500
From: "Dan W. Dooley" <dandooley@pipeline.com>
To: <DBarrett@creo.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [74887] Re: OT..... Switchable Attenuator Project

Message-ID: <005d01bfeb7a\$f9c5f1e0\$0100a8c0@dandooley>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dave, try May '98 QST. Page 41.

Dan W. Dooley WB5TKA Bedford, Texas EM12ku
e-mail to: dandooley@pipeline.com
SOC#198
May Goddes love blest ye alle
"Ancient Pistol, I do partly understand your meaning."

----- Original Message -----

From: Dave Barrett <DBarrett@creo.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Tuesday, July 11, 2000 1:48 PM
Subject: OT..... Switchable Attenuator Project

> Hi All,
> Some years back a Ham did a project detailing the building of an
> attenuator that was switchable, if I remember rightly it was
> 1db,2db,3db,5db,10db,and three 20db settings.
> It was a very neat project in a tiny milled out of solid aluminium
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> who did it and or where I might find the article.....a search on QST
showed
> up nothing much, I would like the dimensions of the milled out box, I
guess
> I'll likely end up just doing it the hard way :-) Anyone with info please
> email off line so as to save bandwidth.
> Thanks
>
> Dave Barrett VA7DB (Ex VE7PCC)
> Vancouver BC Canada
>

Date: Tue, 11 Jul 2000 15:15:00 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>

To: NB6M@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [74888] Re: Modification of KAMPlus TNC for PSK-31 Keying
Message-ID: <Pine.LNX.4.10.10007111510130.1663-100000@cannac.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Your message is confusing. You sure don't need or want your KAMPlus when running psk31. I need only my computer with a sound card and two wires and the software called digipan which does the rest. I have a KAM and use it with Airmail to get my internet mail via the pactor mode. I silly circuit can be made to key the transmitter from digipan if wanted. It takes 1 transistor a diode and 2 resistors.

On Tue, 11 Jul 2000 NB6M@aol.com wrote:

> Since I have a KAMPlus TNC and MFJ-1272BYH Mike/TNC switch box that I use in
> conjunction with a variety of rigs, both QRP and QRO, for Pactor, RTTY, and
> keyboard CW operation, and wanted to get on PSK-31, I have been pondering the
> installation of the transmitter keying circuitry and transmitter audio input
> circuitry so as to make use of the cabling between computer, TNC, and rig
> that already exists.
>
> Receiver Audio was a snap. All that required was a two mini phone jack to
> single mini phone plug adaptor plugged into the external speaker jack at the
> back of the rig, so that one receive audio line could go to the switch box
> for the TNC, and the other could go to the Mike input on my laptop, to
> provide audio for the Digipan program.
>
> For transmitter audio, I wired a 3 circuit jack into the rear of the
> MFJ-1272BYH switch box, paralleled the stereo audio lines and installed the
> 40 DB resistive attenuator pad (described in the help file for Digipan) at
> the rear of the jack, ran the audio to a SPDT switch that I installed in the
> front of the switch box and wired so that it selects audio either from the
> TNC (for pactor, rtty, etc operation) or from the laptop (for PSK-31).
>
> After checking the circuit diagram and description of connections for the
> KAMPlus, I discovered that neither the KAMPlus or either the KaGOLD or
> Airmail programs I use with the KAMPlus make use of the DTR line in the cable
> from the computer to the TNC. That line is paralleled with the DSR line on
> the circuit board inside the KAMPlus. The Digipan PSK-31 program can be set
> up to use either the RTS or DTR line for sending a keying signal to the
> transmitter switching circuitry.
>
> Armed with that information, it was easy to remove the circuit board from the
> TNC, cut the circuit board trace where the DTR line joined the DSR line,

> solder the transmitter keying transistor and its base resistor and diode
> (described in the help file for the Digipan program) on the bottom of the
> circuit board itself, between the PTT line going to the rig, (Pin 3 of the 8
> pin DIN HF Radio jack on the TNC) , and ground, and wire in a SPST switch
> between the DTR line and the base resistor of the transmitter switching
> transistor.
>
> The switch was necessary between the DTR line and the base resistor of the
> transmitter keying transistor because both the KaGOLD program and the Airmail
> program cause a positive voltage to be applied to the DTR line from the
> computer, which means that when I used those programs, the transmitter would
> be keyed all the time. With the switch in place, and turned off, operation
> is normal, as those two programs key the transmitter through the RTS line.
>
> So, DTR switch "on" for Digipan, and no power is needed to the TNC, since the
> keying transistor gets its collector voltage from the rig, on the PTT line.
>
> For Normal TNC related operation, power "on" and DTR switch "off". Works
> very well, and makes use of cabling already installed for operating in other
> digital modes.
>
> Have been on PSK-31 running low power for a few days now, racking up QSOs.
> Lots of fun and an easy mode to operate on. Makes for a nice, occasional
> change from my normal CW operation and is a good QRP mode with lots of
> activity.
>
> 72
>
> Wayne NB6M
>
>
>
>

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 11 Jul 2000 17:22:09 EDT
From: NB6M@aol.com
To: k5di@zianet.com
Cc: qrp-1@lehigh.edu
Subject: [74889] Re: Modification of KAMPlus TNC for PSK-31 Keying
Message-ID: <ba.8015d19.269cea01@aol.com>
MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Sorry about the confusion. I am not using the KAMPlus for PSK-31, other than as a convenient place to install the keying transistor and its base resistor and diode. By doing it this way, I am simply making use of the existing cabling between the computer, the TNC, and the rig.

72

Wayne NB6M

Date: Tue, 11 Jul 2000 14:17:27 -0700
From: Mike Gipe <mgipe@reliablemeters.com>
To: mgemm@mtechnologies.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [74890] RE: FOX Re: Hunt details for Thursday's hunt
Message-ID: <F988E2FF74F4D111A61F00A0C949D7A928EDAA@mission>
MIME-Version: 1.0
Content-Type: text/plain;
charset="windows-1252"

But of course, it's only a demo, and won't count for points.

Mike K1MG

..., why don't we
> recreate that very qso as an example, right at 0100Z? I'd be
> delighted to
> participate in such an fine educational program.
>
>
> Marshall Emm, N1FN

Date: Tue, 11 Jul 2000 14:30:03 -0700
From: Phil Wheeler <w7ox@earthlink.net>
To: NB6M@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [74891] Re: Modification of KAMPlus TNC for PSK-31 Keying
Message-ID: <396B91DB.4344FF59@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Wayne,

I'm glad you could work that out. I have a KAM+, but did not even consider modifying it for PSK-31 use .. since I'm not using it much in the modes it supports these days. I ended up buying a RigBlaster, which is an excellent solution for PSK-31 and any mode where software can do the job. A few more \$\$\$ than modifyig the KAM+, though!

But I will store your message and may do the KAM-Plus mod in the future. Hmmm .. wonder if Kantronics will offer a PSK-31 firmware upgrade? With its popularity, that would seem to make sense!

Phil

NB6M@aol.com wrote:

>
> Since I have a KAMPlus TNC and MFJ-1272BYH Mike/TNC switch box that I use in
> conjunction with a variety of rigs, both QRP and QRO, for Pactor, RTTY, and
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> activity.
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>
> Wayne NB6M
>
>

Date: Tue, 11 Jul 2000 18:05:43 EDT
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [74892] OT: Museum of Radio and Technology
Message-ID: <20000711.180551.4303.0.kc8aon@juno.com>

Not QRP exclusively, but a very neat place to visit ! I haven't seen the website, but have been to the museum and thought I would share with the group. It's the Museum of Radio and Technology in Huntington, WV - check it out !

73.....kc8aon

<http://oak.cats.ohiou.edu/~postr/MRT/>

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 11 Jul 2000 18:33:24 -0400
From: tom palmer <n1tp@worldnet.att.net>
To: n5tw@igg-tx.net, QRP-L <qrp-l@Lehigh.EDU>
Subject: [74893] Re: Fox: Hunt details for Thursday's hunt
Message-ID: <396BA0B3.6CBF1BAF@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Tom Whiteside wrote:

> I will be ... running 5W to 3 beams stacked on a 130
> ft tower.

Don't the rest of us wish?!
No wonder Tom can hear Florida considering
the "Gulf of Mexico affect."

Tom, N1TP
Naples, FL.
QRP-L 11317

Date: Tue, 11 Jul 2000 18:56:06 EDT
From: Dean W Manley <kh6b@juno.com>
To: qrp-l@lehigh.edu
Subject: [74894] postpone
Message-ID: <20000711.130027.5463.0.kh6b@juno.com>

postpone

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End of QRP-L Digest 1879
